363

FINAL REPORT
COMPLIANCE EVALUATION INSPECTION
ELI LILLY INDUSTRIES, INC.
MAYAGUEZ, PUERTO RICO

10/21/87

Prepared for

U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Waste Programs Enforcement Washington, D.C. 20460

EPA Work Assignment No.

EPA Region

Facility I.D. No.

Contract No.

CDM Federal Programs

Corporation Document No.

Prepared By

Work Assignment Manager

Telephone Number Primary Contact

Telephone Number Date Prepared : 591

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: PRD091024786

: 68-01-7331

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: July 5, 1988

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PROJECTS

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SUBJECT

Final Report for EFA Pork Assignment 591 Gespliance Avaluation Insmection

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dear Ms. Maryulli

Please find enclosed the First Ropert actified, "Openitoric Evaluation (appection, Elf Edliv Industries, Inc., Engagnes, Partic Stoo", as partial fulfillment of the reporting regularments for this work assignment.

If you have soy comment regarding this submittal, please contact Scote Grahes of C'F Federal Pograms Corporation at (212) 393-9634 within two weeks from his date of tell letter.

Sincerely.

to iterograms Corporation

Per The

Pobert D. Galts, P.E.

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(Institut and const. only)
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COMPLIANCE EVALUATION INSPECTION REPORT

Eli Lilly Industries, Inc. Facility Name:

P.O. Box 1748 Mailing Address:

Mayaguez, Puerto Rico 00708

Gabriel Garcia Facility Contact:

(809) 834-7846

Road No. 2 KM 146.7 Facility Location:

Bo Sabnetas

Mayaguez, Puerto Rico 00708

PRD 091024786 USEPA ID NO .:

John Mihalich, Inspection Participants:

CDM Federal Programs Corporation

Scott Graber,

CDM Federal Programs Corporation

Gabriel Garcia,

Eli Lilly Industries, Inc.

The purpose of this inspection was to evaluate Purpose of Inspection:

Eli Lilly Industries, Inc. compliance with

applicable RCRA regulations.

October 21, 1987 Inspection Date:

40 CFR Part 262 Applicable Regulations:

40 CFR Part 265 40 CFR Part 266 40 CFR Part 268

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1.0 INTRODUCTION

In accordance with RCRA policy, commercial hazardous waste generator and/or treatment, storage, and disposal (TSD) facilities are subject to Compliance Evaluation Inspections (CEI) which address facility environmental concerns. The inspections involve evaluating compliance with all applicable 40 CFR 262 through 268 standards. The inspections include the facility's implementation of the land disposal restrictions which were promulgated on November 7, 1986. As of November 8, 1986 spent solvents listed as F001, F002, F003, F004, and F005 cannot be land disposed unless they meet certain treatment-based standards. In addition, if the facility generates California-listed hazardous wastes, it must comply with the land disposal restrictions promulgated on July 8, 1987.

Under TES III Work Assignment 591, CDM Federal Programs Corporation (CDM FPC) was contracted to conduct a CEI at Eli Lilly Industries, Inc. (Eli Lilly) in Puerto Rico. CDM FPC visited Eli Lilly on October 21, 1987 to conduct the CEI. The information contained within this report was obtained from facility personnel and on-site record's during the CEI, except where referenced otherwise.

The CEI was conducted using the RCRA Inspection Form. The evaluation of compliance with the land ban restrictions was conducted using the RCRA Land Restriction F-solvent checklist. This and other relevant documents are attached to this report.

2.0 SITE BACKGROUND

2.1 FACILITY DESCRIPTION AND OPERATIONS

Eli Lilly, which began operations in 1968, is a pharmaceutical company located in Mayaguez, Puerto Rico on approximately 33 acres of land. In addition to generating hazardous waste, Eli Lilly treats and stores hazardous waste and is an interim status TSD facility. Eli Lilly also operates 3 separate generator facilities which are located in Carolina, Puerto Rico. This report deals exclusively with the Mayaguez TSD plant.

Eli Lilly manufactures 5 separate products in 4 reaction buildings, which are product specific to prevent contamination. Both buildings #3 and #6 produce two analgesics, one of which is Darvon, and one hypoglycemic. Building #13 produces Cafelex, an antibiotic. Building #17 produces Elosen, which is also an antibiotic. Eli Lilly is responsible only for the final stage of production of the antibiotics. Solvents are used as catalysts for chemical reactions during the intermediate stages of production of the analgesics and the hypoglycemic.

There is an incinerator, a wastewater treatment plant (WTP), a tank farm, and a hazardous waste storage area (HWSA) for drums onsite.

2.2 HAZARDOUS WASTE GENERATION

Solvents used as catalysts during Eli Lilly's operations include toluene, acetone, methyl and ethyl alcohol, hexane, ethyl acetate, di-ethylene, and tri-ethylene. Sodium hydroxide, hydrochloric acid (HCl), and acetic acid are also used as chemical carriers.

Solvents are recovered by a distillation unit, whose still bottoms are stored and burned on-site. Acetonitrile and methylene cyanide are released during the recovery process, stored in tanks, and shipped off-site.

Organic, acidic, and caustic wastes are all sent to the WTP, provided their chemical oxygen demand is <10,000 ppm. This includes all solvents except toluene and xylene. Treated water is discharged to the Publically Owned Treatment Works (POTW) system.

There are 5 tanks onsite, 2 of which store "hot" waste (i.e. rich in solvents) and 3 of which store "cold" waste (i.e. rich in salts). (See Exhibit 1 for examples of "hot" and "cold" waste.) The hot waste has a high organic concentration of approximately 15,000 BTU/lb, while cold waste has a concentration of approximately 3,000 to 5,000 BTU/lb. The tanks are cleaned every 2 to 3 years. The tank sludge from the cleaning is removed, stored in drums, and shipped off-site.

From the storage tanks, hazardous waste is sent to the incinerator (Air Permit No. PFE-50-1084-0773 I-II-III-0). As of 1972, 95% of Eli Lilly's waste is incinerated onsite. Only 5% is stored in drums and shipped off-site for disposal. Material burned includes extractions, separations, distillations, and centrifuge mother liquors from the WTP. Off-specification material from production and oil from boilers are also incinerated. Incinerator scrubber water is released to the Anasco River, as per Eli Lilly's NPDES permit (number PRO000353).

Calcium carbonate, ammonia (pH of 12), and sodium hydroxide (pH of 14) are not burned because of strict control of the pH material to be burned. These materials are neutralized at the WTP.

Wastes from Eli Lilly's Carolina plants are occasionally sent to the Mayaguez facility here for storage and/or incineration. The bulk of the Carolina plant's wastes (e.g. lab packs) cannot be burned and are shipped off-site to a disposal facility.

3.0 ON-SITE OBSERVATIONS

3.1 IDENTIFICATION OF HAZARDOUS WASTE

Eli Lilly's hazardous waste storage area (HWSA) is surrounded by a 2-foot high cement wall and partially covered by an aluminum roof. At the time of inspection, there were 4 separate stacks of drums.

Approximately fifteen 55-gallon plastic drums were observed in the front section of the HWSA. These drums were from the Carolina plants. Six of these drums were not dated with an accumulation date. Several drums were not marked with manifest numbers or EPA identification numbers (Exhibit 2). At least one drum was completely unmarked. Several drums contained old, inappropriate labels, which indicated the drums previous contents. For example, a drum from Carolina Plant #3, Manifest #07019 containing 1,1,1 - trichoroethane had an additional (old) "denatured alcohol" label. Due to the stacking arrangement, labels, if present, were not available for inspection.

In another section of the HWSA, approximately two hundred and twenty-five 55-gallon metal drums containing used incinerator bricks were stacked 3-high, 5-across, and 15-long (Exhibit 2). Most of these drums were labeled hazardous although, due to the stacking arrangement, it was impossible to view all of the labels. Many of these drums were not marked with Manifest numbers, EPA identification numbers, or accumulation dates (Exhibit 2).

The third section of the HWSA contained approximately eighteen 55-gallon metal drums containing sludge from former hazardous waste storage tanks. These drums reportedly contained solvent waste sludge, although the labels merely indicated "solid" hazardous waste. These drums were dated 10-11-86 and were scheduled to be transported out of state according to Eli Lilly's on-site personnel.

Approximately sixty 55-gallon metal drums containing activated carbon were observed in the final section the HWSA. Three of these drums were open. These were not marked hazardous and were reportedly awaiting permission to be disposed of in a landfill.

Two discarded tanks were observed in the HWSA awaiting closure approval from the EQB. These tanks are included in the closure plan.

3.2 EXAMINATION OF PAPERWORK

3.2.1 THE MANIFEST RECORD

Several of Eli Lilly's manifest documents from 1986 and 1987 are missing signed TSD copies.

Eli Lilly's Carolina Plant #2 was misclassifying F-solvent wastes on the manifests. Some waste solvent shipments from the Carolina plants were listed as both F001 and F002 without any additional description (Exhibit 3). Discrepancies on these and other manifests were not noted in the space provided on Form 8700-22 (Exhibit 4). Waste solvent codes F001 and F003 are used interchangeably for methanol/acetone mixture shipments (Exhibit 5) for no apparent reason.

Eli Lilly's record shows that manifest shipment 87020 came to Eli Lilly, Mayaguez on 9-3-87 from Carolina Plant #3, and was returned to the same plant on 9-4-87 (Exhibit 6). It appears that Carolina Plant #3 was using

Eli Lilly Mayaguez for temporarily handling waste that had been stored beyond Carolina's 90-day storage limit, and that Eli Lilly was then returning the shipment to the Carolina plant in order to initiate another accumulation period. Eli Lilly explained that shipment #87020 was mistakenly sent to them on 9/3/87, so they returned it the next day. Eli Lilly therefore transported hazardous waste without obtaining a transporter license.

3.2.2 INSPECTION LOG BOOK

At the time of inspection, Eli Lilly was unable to provide a weekly inspection log book for the HWSA, the incinerator, or the tank storage area for the years 1985 and 1986.

3.2.3 WASTE ANALYSIS

At the time of inspection, Eli Lilly was unable to provide waste analyses from Eli Lilly's Carolina Plants #1 and #3.

4.0 CONCLUSIONS

Eli Lilly does not generate, treat, store, or dispose of California-listed wastes and is therefore exempt from the pertaining regulations.

Eli Lilly is cited for the following violations of federal regulations 40 CFR 262, 263, 265, and 268.

1) 40 CFR 262.32 - Marking

Failure to appropriately mark containers holding hazardous waste (i.e., old labels remain; drums were completely missing labels; tanks in the HWSA were unlabeled)

- 2) 40 CFR 262.34 Accumulation Time
 - (a)(2) Failure to mark each container of hazardous waste (e.g. containers holding used incinerator bricks, see Exhibit 2), with the dates upon which accumulation began.
- 3) 40 CFR 263.11 Standards Applicable to Transporters of Hazardous Waste

Failure to comply with \underline{all} standards applicable to transporters of hazardous waste and \overline{to} apply for a transporter EPA ID number.

4) 40 CFR 265.13 - General Waste Analysis

(a)(1) Failure of the facility to obtain a chemical and physical analysis of a representative sample of the waste treated, stored, or disposed of at the facility.

- 5) 40 CFR 265.15 General Inspection Requirement
 - (d) Failure to keep record of inspections for at least three years from the date of the inspections.
- 6) 40 CFR 265.35 Required Aisle Space

Failure to maintain aisle space at the HWSA to allow unobstructed movement of personnel, fire protection equipment, spill control equipment, and decontamination equipment.

- 7) 40 CFR 265.71 Use of the Manifest System
 - (a)(2) Failure to note discrepancy in waste quantities on manifest 87004, dated 7-15-87 (see Attachment 3, Exhibit 3), and on manifests submitted to Eli Lilly by the Carolina plants.
 - (b)(5) Failure to retain a TSD copy of each manifest as a record for at least three years from the date the waste was accepted by the initial transporter.

ATTACHMENT 1

RCRA INSPECTION FORM

Report Prepared for:	
Generator	<u> </u>
Transporter	<u>-</u>
HWM (TSD) FACILITY	172
Copy of Report Sent to the Facility	<u></u>
FACILITY INFORMATION	
NAME: ELI LILLY INDUSTRIES	INC.
LOCAL ADDRESS:	
	Zip Code
POSTAL ADDRESS: P.O. Box 1748	Walter to the last
MAYAGUEZ, PR	Zip Code 00 708
E.P.A. ID #: PRD 09/024786	
DATE OF INSPECTION: OCTOBER 21, 1987	
Participating Personnel	
	COM FRC
E.Q.B. or E.P.A. Personnel: Scott Graber John Mihalic	h, CAM FRE
	-
Facility Personnel: <u>Gabrie</u> Gara	eig
Report Prepared by: (Name)	(5) 44 50 5
Agency: EPA	n, con Fre
Telephone Number: 212-393-9634	
Approved for the Director by:	

		Facility Name	: Eli Lilly
		Address	
Time In:			
Time Out:		EPA ID:	PRD09/024786
	Date		
	/	or inspection:	10-21-87
Photos Taken	Ves Yes	- No	
If yes, how many?	9 (min	ue)	
Sample Taken	Yes	No	No. of Samples
Manifesta Davisus	Yes		
Manifests Reviewed	<u>✓</u> Yes	No	
Number of manifest	s in compli	ance ~/00	2
Number of manifest			
			The state of the s
2.50 manrest do	coment numbe	ers of those n	manifests not in compliance.
87036	8700 4		
87035	00000 4		
87034	00002		
87032	86006		
87031	86007		
870 30	87001		
87029			
870 28			
87027			
87026			
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Silver.

Philipping Comments

SUMMARY OF FINDINGS

FACILITY DESCRIPTION AND OPERATIONS 2 antibotice 2 Unconerator onsite see roles for additional information With East

Describe the activities that result in the generation of hazardous waste
Solvents used as chemical carriers.
Solvents used as chemical carriers; Off-spec material
Identify the hazardous waste located on site, and estimate the approxima quantity of each. (Identify Waste Codes)
toluene, acetone, methy/ & ethy/ alcohol, hexano
toluene, acetone, methy/ & ethy/alcohol, hexane ethy/acetate, HCI, caystics, acetic acid, di-ethylene, tri-ethylene, acetomitrate, methylene cyanide.
methylene, tri-enylene, acetonitrate,
see notes)
At the second se

Is there reason to believe that the facility has hazardous waste on-site? If yes, what leads you to believe it is hazardous waste? Check appropriate boxes. Company admits that its waste is hazardous during the inspection. TI Company admitted the waste is hazardous in its RCRA notification and/or Part A Permit Application. The waste material is listed in the regulations as a hazardous waste from a nonspecific source (§261.31). The waste material is listed in the regulations as a hazardous waste from a specific source (§261.32). The material or product is listed in the regulations as a discarded commercial chemical product (§261.33). Testing has shown characteristics of ignitability, corrosivity, 17 reactivity or extraction procedure toxicity, or has revealed hazardous constituents (please attach analysis report). Company is unsure but there is reason to believe that waste materials

- - 100

are hazardous. (Explain)

GENERATOR INSPECTION CHECKLIST

40 CFR 262 Subpart A - General

		YES	NO	N/A
262.11	Hazardous waste determination			
	(a) Did the generator test its waste to determine whether it is hazardous?	V		
	Is the waste hazardous?	/		
	Is the generator determining that its waste exhibitis a hazardous waste characteristic(s) based on its knowledge of the material(s) or processes used? Bank	✓		
	40 CFR Subpart B - The Manifest			
262.20	Has hazardous waste been shipped off site since November 19, 1980?			
	If yes, how many shipments, off site, have been made and describe the approximate size of an average shipment made on a monthly basis. If facility is a small quantity generator, please explain.			
	4 shipments/month 7500 gallons/shipment			
	Does the generator have an EPA ID #?			
	Does each manifest have the following information? Please circle the elements missing and obtain a copy of the incomplete manifests. (List those manifests that are deficient)			
	The generator's name, address and phone number?	_		_
	The generator's EPA ID number?	2		
		~		

THE PROPERTY OF THE PARTY OF TH

	YES	NO	N/A
The transporter(s) name, address, and phone number?	· V		
The transporter(s) EPA ID number?			
The name, address and phone number of the designated TSD facility?			
The TSDF's EPA ID number?	1		
The name, type and quantity of hazardous waste being shipped, including such particulars as may be required regarding same?			
Special handling instructions and any other information required on the form to be shipped by the generator? LANDBAN	_	/	<u>·</u>
Before allowing the manifested waste to leave the generator's property, did the generator:			
Sign the manifest certification by hand?			
Obtain the handwritten signature of the initial transporter and date of acceptance on the manifest?	_		
Retain one copy and forward one copy to the state of origin and one copy to the state of destination? generator copies missing		J	
Give remaining copies of the manifest form to the transporter?	1		
Has the generator maintained facility records for three (3) years (Manifest)s, exception report(s) and waste analysis) wissing 1985	<u></u>	_	

<u>YE:</u>	<u>S</u>	NO	N/A
Has the generator received signed copies of portion B (from the TSD facility) of all manifests for waste shipped off site more than 35 days ago?		/	
If not:			
 Did the generator contact the hauler and/or the owner or operator of the TSDF and the EQB to inform the EQB of the situation, and 			,
2. Have exception reports been submitted to the EQB covering any of these shipments made more than 45 days ago?			
Before transporting or offering hazardous waste for transportation off site, does the generator?			
Conspicuously lable appropriate manifest numbers on all hazardous waste containers that are intended for shipment?		_	
Insure that all containers used to transport hazardous waste off site are in conformance with applicable DOT regulations (i.e., 49 CFR 171 - 49 CFR 179)?			
Accumulation Time			_
How is waste accumulated on site?			
Containers			
Tanks (complete HWMF checklist)			
Aboveground			
	t)		
Piles (complete HWMF checklist)			

o Marketines

	YES	NO	N/A
Is each container clearly dated with	1		
each period of accumulation so as to be visible for inspection?			
	-	_	_
Is waste accumulated for more than			
90 days?			
* *			-
If yes, complete HWMF checklist.			

STOP HERE IF THE HAZARDOUS WASTE MANAGEMENT FACILITY (TSD) CHECKLIST IS FILLED OUT.

HAZARDOUS WASTE FACILITY STANDARDS

40 CFR Part 265 Subpart B - General Facility Standards

265.13	Waste Analysis	YES	NO	N/A
	Is there a detailed chemical and physical analysis of a representative sample of the waste(s) or each waste? (At a minimum, this analysis must contain all the information necessary for proper treatment, storage or disposal of the waste).			/ * * ¹ .
	Does the character of the waste handled at the facility change from day to day, week to week, etc., thus requiring frequent testing? Check only one: Waste characteristics vary All waste(s) are basically the same Company treats all waste(s) as hazardous	_	_ 	·
	Is there a written waste analysis plan at the facility?	<u></u>		
	Does it contain:			
	Parameters for which each hazardous waste stream will be analyzed and the rational for the selection of these parameters?			
	The test methods which will be used to test for these parameters?	1		
	The sampling method which will be used to obtain a representative sample of the waste to be anlayzed?	<u> </u>		
	And the second of the second o		1057	

	YES .	NO	N/A
The frequency with which the initial analysis of the waste will be reviewed or repeated to ensure that the analysis is accurate and up-to-date? every 2 wks.			
For off-site facilities, the waste analysis that hazardous waste generators have agreed to supply?		الإ	
Procedures which will be used to identify changes in waste stream characteristics? in Part B app.	<u>/</u>		
Did the owner or operator submit the waste analysis plan to the department?	1		
If yes, when was the plan submitted? in Amended Part B app	o		
Does hazardous waste come to this facility from an outside source (e.g., another generator)?	_		
If yes, list the name(s) of generators. Eli Lilly Carolina Plants P PO PO	20/		
If waste comes from an outside source, are there procedures in the waste analysis plan to insure that waste received conforms to the accompanying manifest?	1		
Does the plan describe:			
The procedures which will be used to determine the identity of each shipment of waste managed at the facility?			
The sampling method which will be used to obtain a representative sample of the waste to be identified, if the identification method includes sampling?	<u>/</u>		

YES NO N/A 265.14 Security Does the facility have: A 24 hour surveillance system which continuously monitors and controls entry onto the active portion of the facility? An artificial or natural barrier, which completely surrounds the active portion of the facility; and a means to control entry, at all times, through the gates or other entrances to the active portion of the facility? Are there "Danger-Unauthorized Personnel Keep Out" signs posted at each entrance to the facility? If no, explain what measures are taken for security.

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	1E2	NO	N/A
General Inspection Requirements			
Does the owner or operator inspect the facility for malfunctions and deterioration, operator errors and discharges which may be causing, or may lead to:			
Discharge of hazardous waste constituents to the environment?	_/		
A threat to human health?			
Has the owner or operator developed, and does the owner or operator follow a written schedule for inspecting monitoring equipment, safety and emergency equipment, security devices, and operating and structural equipment that are utilized for the prevention, detection or response to the environmental or human health?	✓		
Is the written inspection schedule kept at the facility?	_		
Does the schedule identify the types of problems to be looked for during the inspection?			
Does the schedule include the frequency of inspection, based upon the rate of possible deterioration of the equipment and the probability of an environmental, or human health incident if the deterioration or malfunctions or any operator error goes undetected between inspections?			
Is there evidence that problems reported in the inspection log have been remedied?			
Does the owner/operator record inspections in a log?	-		
Are these records kept for at least three (3) years from the date of inspection? None for 85,86; facility indicated it was unnecessary for instrum status	4 	_/	

		YES	NO	N/A
	Does the records include the date, and time of the inspection, the name of the inspector, a notation of the observations made, and the date and nature of any repairs or other remedial action?		_	_
265.16	Personnel training			
	Have facility personnel successfully completed a program of classroom instruction or on-the-job training within six (6) months of having been employed?			
	Is the program directed by a person trained in hazardous waste management procedures and does it include instruction which teaches facility personnel hazardous waste management procedures (including contingency plan implementation) relevant to the positions in which they are employed?			
	If yes, have facility personnel taken part in an annual review of training?			
	Is there written documentation of the following:			
	Job title for each position at the facility related to hazardous waste managment, and the name of the employee filling each job?			
	A written job description for each position related to hazardous waste management?			
	A written description of the type and amount of both introductory and continuing training given to personnel in jobs related to hazardous waste management?	<u> </u>		
	Documentation of actual training or experience received by personnel?			

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	YES	NO	N/A
Are training records kept on all current employees until closure of the facility and training records kept on former employees for 3 years from their last date of employment?	<u></u>	<u></u>	<u> </u>
Preparedness and prevention			
Does the facility comply with preparedness and prevention requirements including maintaining:		: :5	
An internal communications or alarm system?			
A telephone or other device to summon emergency assistance from local authorities?	_		
Portable fire equipment, spill control equipment, and decontamination equipment?	_		
Water at adequate volume and pressure to supply water hose streams, or foam producing equipment, or automatic sprinklers, or water spray systems?	_		
Is equipment tested and maintained?	1		
Is there immediate access to communications or alarm systems during handling of hazardous waste?	_		
Adequate aisle space to allow unobstructed movement of personnel fire protection equipment, spill control equipment and decontamination equipment?			
If no, please explain.	- Telemo		-

	YE	S NO	N/A
In your opinion, do the types of waste on site require all of the above procedures, or are some not required?	<u>~</u>		
Explain. ?			
Has the facility made the following arrangements, as appropriate for the type of waste handled on site?			
Familiarize police, fire departments and emergency response teams with the layout of the facility and hazardous waste handled?	·	/	
Where more than one police and fire department might respond to an emergency, is there an agreement designating primary emergency authority to a specific police or fire department, and agreements with any others to provide support to the		,	
Agreements with emergency response contractors, and equipment suppliers?	• 1	· —	
Arrangements to familiarize local hospitals with the properties of hazardous waste handled at the facility and the types of injuries or illnesses which could result from fires, explosions, or discharges at the facility?	<u>-</u>		

- 2.01 m ⁻	UNDER REVISION BY EPA; 3-15-87	YES	NO	N/A
265.50	Contingency plan and emergency procedures			
	Does the facility have a written contingency plan for emergency procedures designed to deal with fires, explosions, hazards to human health or environment, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil or surface water?			
	Are provisions of the plan carried out immediately whenever there is a fire, explosion, or release of hazardous waste or hazardous waste constituents which could threaten human health or the environment?			Shots 2
	Does the contingency plan describe the actions facility personnel shall take in response to fires, explosions, or any unplanned sudden or non-sudden rélease of hazardous waste or hazardous waste constituents to air, soil, or surface water at the facility?			
	Did the owner or operator prepare a Spill Prevention, Control, and Countermeasures (SPCC) Plan in accordance with 40 CFR 112 or Part 1510?	_		
	If yes, did the owner or operator amend that plan to incorporate hazardous waste management provisions that are sufficient to comply with the requirements of this section? 3-15-87			
dated 6-4-82	Does the plan describe arrangements agreed to by local police departments, fire departments, hospitals, contractors, and State and local emergency response teams to coordinate emergency services? No addresses in 1987 plan	<u>Jan</u>	- Appe	

34-34

YES NO N/A Does the plan list names, addresses. and phone number (office and home) of all persons qualified to act as emergency coordinator and is this list kept up-todate? Where more than one person is listed, one shall be named as primary emergency coordinator and others shall assume responsibility as alternates. Does the plan include a list of all emergency equipment at the facility (such as fire extinguishing systems, spill control equipment, communications and alarm systems (internal and external), and decontamination equipment), where this equipment is required? Is the list kept up-to-date? In addition, does the plan include the location and a physical description of each item on the list, and a brief outline of its capabilities? Does the plan include an evacuation procedure for facility personnel where there is a possibility that evacuation could be necessary? Does this plan describe signal(s) to be used to begin evacuation, evacuation routes, and alternative evacuation routes (in cases where the primary routes could be blocked by releases of hazardous waste or fires)? Is a copy of the contingency plan and all revisions to the plan: Maintained at the facility; and Has the contingency plan been submitted to local authorities (police, fire departments, emergency response teams)? Lated 6-4-82

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data to to prove

		YES	NO	N/A
265.112	Closure plan	*		
	Does the facility have a written closure plan?	$\sqrt{}$		
	Does the owner/operator keep a written copy of the closure plan and all revisins to the plan at the facility?	_		
	If yes, does the plan include:			
	A description of how and when the facility will be partially closed (if applicable) and ultimately closed?			
	The maximum extent of the operation which will be unclosed during the life of the facility?			
(An estimate of the maximum inventory of wastes in storage or in treatment at any given time during the life of the facility?			
	A description of the steps needed to decontaminate facility equipment during closure?			
	A schedule for final closure including the anticipated date when the wastes will no longer be received, the date when completion of final closure is anticipated, and intervening milestone dates which will allow tracking of the progress of closure?			
		75.		—
265.118	Post Closure Plan			
	Does the facility have a written post- closure plan kept at the facility?			/

in again way

	YE	<u> </u>	10	N/A
If yes, does the plan:				
Identify the activities which will be carried on after closure and the frequency of these activities?				
Include a description of the planned groundwater monitoring activities and frequencies at which they will be performed?				
Include a description of the planned maintenance activities, and frequency at which they will be performed, to insure the following:				
The integrity of the cap and final cover or other containment structures where applicable?		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Describe the function of the facility monitoring equipment?				
Include the name, address and phone number of a person or office to contact about the disposal facility during the post-closure period?				
Does the owner/operator have a written estimate of the cost of post-closure for the facility?				
If yes, what is it?				

Please circle all appropriate activities and answer questions on indicated pages for all activities circled.

Storage	Treatments	- 社	Disposal
Container - pg. 5	Tank pg. 30		Landfill - pg. 39
Tank, above ground - pg. 6	Surface Impoundments -	pg. 35	Surface Impoundments - pg. 35
Tank, below ground - pg. 6	Incineration - pg. 42		Other
Surface Impoundments - pg.	35 Thermal Treatment - pg.	45	limp)
Waste Piles - pg. 37	Chemical, Physical and Biological Treatment -	pg. 45	
Other	Other	No. make	then and the

YES NO N/A

40 CFR 265 Subpart 1

<u>Containers</u>

What type of containers are used for storage? Describe the size, type, quantity and nature of wastes (e.g., 12 fifty-five gallon drums of waste acetone). 55-gallon metal 55-gallon plastic

Is there a containment system for spills, leaks and precipitation?

If yes, describe the containment system.

2 ft high cement wall partial aluminum roof see notes)

Do the containers appear to be of sturdy leakproof construction of adequate wall thickness, weld, hinge and seam strength, and of sufficient material strength to withstand side and bottom shock, while filled, without impairment of the container's ability to contain hazardous waste?

If no, explain.

		YES	NO	N/A
	Are the lids, caps, hinges or other closure devices of sufficient strength that when closed, they will withstand dropping, overturning or other shock without impairment of the container's ability to contain hazardous waste?	<u>/</u>		
	If no, explain.	-		
	with exception of activated	carbon	n dr	umg
		Section in the last		
	Do the containers appear to be in good condition, not in danger of leaking?	1		
	If not, please describe the type, condition and number of leaking or corroded containers. Be detailed and specific.			
	Are all containers securely closed, except those in use, so that there is no escape of hazardous waste or its vapors?			
	If no, explain.			
	Do containers appear to be properly			
-	opened, handled or stored in a manner which will minimize the risk of the container rupturing or leaking?		/	
	If no, explain. at sle space			

П

П

	YES	NO	N/A
Are containerized hazardous wastes segregated in storage by waste type?			
Are containerzied hazardous wastes arranged so that their identification label is visible?			
Are hazardous wastes stored in containers made of compatible materials?	_		_
Does the owner/operator inspect the container storage area at least weekly, looking for leaks and for deterioration caused by corrosion or other factors?			
Are containers holding ignitable and reactive waste located at least 50 feet (15 meters) away from the facility's property line?			
Are incompatible wastes, or incompatible wastes and materials placed in the same container?			
If yes, explain.		12	
Are hazardous wastes place in unwashed containers that previously held incompatible wastes?			
If wer explain			-

	YES	NO	N/A
Are containers holding hazardous waste that are incompatible with any waste or other materials stored nearby in other containers, open tanks, or surface impoundments separated from other materials or protected from them by means of a dike, berm, wall or other device?		Z	
Are ignitable, reactive or incompatible wastes protected from sources of ignition or reaction?			
If no, explain.	-		
Does the owner/operator confine smoking and open flames to specially designated locations when ignitable or reactive wastes are being handled?			
If no, explain.	•		
Does the owner/operator conspic- uously place "No Smoking" signs whenever there is a hazard from ignitable or reactive waste?			
If the treatment, storage or disposal of ignitable or reactive waste, and the mixture of incompatible wastes and materials, conducted so that it does not:			
Generate extreme heat or pressure, fire or explosion, or violent reaction?	1		

	YES	NO	N/A
Produce uncontrolled toxic mists, fumes, dusts, or gases in sufficient quantities to threaten human health?			
Produce uncontrolled flammable fumes or gases in sufficient quantities to pose a risk or fire or explosion?			
Damage the structural integrity of the device or facility containing the waste?	_		
Threaten human health or the environment?	_	_	_

40 CFR 265 Subpart J

Tanks

What are the approximate number and size of tanks containing hazardous wastes?

5 tanks 12,000 gallons each

Identify the waste treated/stored in each tank.

see notes

Conomal Onematica D	YES	NO	N/A
General Operating Requirements			
Are hazardous wastes or treatment reagents placed in the tank that could cause the tank or its inner liner to rupture, leak or corrode?			
If yes, please explain.		YE.	
1			
Are there leaking tanks?		1	
Are all hazardous wastes or treatment reagents being placed in tanks compatible with the tank material so that there is no danger or ruptures, corrosion, leaks or other failures?	/		
	1	-	
Do uncovered tanks have at least 2 feet of freeboard or an adequate containment structure?			
If waste is continuously fed into a tank, is the tank equipped with a means to stop the inflow from the tank, e.g., bypass system to a standby tank?	<u> </u>		
Inspections			
Is the tank(s) inspected for:			
 Discharge control equipment (each operating day) 	/		
 Monitoring equipment (each operating day) 	/		
 Level of waste in tank (each operating day) 			
4. Construction of materials of the tank (weekly)	/		
5. Are the tanks and surrounding areas (e.g., dike) inspected weekly for leaks, corrosion or other failures (weekly)?			

		YE	<u> NO</u>	N/A
Are the store h	ere underground tanks used to nazardous wastes?		1.2	/
If yes, entered	how many and can they be for inspection?		- 42	
Has the on or be Specify	underground tank been in use efore November 19, 1980? date.			
		-		_
If no, w	when was the tank placed in use?			
ill a man	table or reactive wastes stored ner which protects them from a f ignition or reaction?			
If no, p	lease explain.			_
Does it a are being other?	appear that incomptabile wastes g stored separate from each			

YES NO N/A

40 CFR 265.90 Subpart F

265.90 Groundwater monitoring

(Applies only to: surface impoundments, landfills, land disposal facilities)

Does the owner/operator have a groundwater monitoring plan capable of determining'the facility's impact on the quality of groundwater?

If no, please explain.

How many monitoring wells has the facility installed?

What is the depth to groundwater?

How many deep monitoring wells are on-site? (Indicate depth of monitoring wells)

How many shallow monitoring wells are on-site? (Indicate depth of monitoring wells)

•	YES	NO	N/A
Is the groundwater monitoring system capable of yielding groundwater samples for analysis?			/
If no, please explain.			
Are monitoring wells installed hydraulically upgradient?			
If yes, specify how many and the depth of each.	42.4		
How many monitoring wells are			
installed hydraulically down gradient?			_/
If yes, specify how many and the depth of each.			
Does the owner/operator have a groundwater sampling and analysis plan?			/
If no, please explain.			

		YES	NO	N/A
Does techn	the plan include procedures and iques for:			<u></u>
1.	Sample collection			
2.	Sample preservation and shipment			
3.	Analytical procedures			
4.	Chain, of custody		_	
	40 CFR Subpart K	e e		
Surfac	ce Impoundments	•		
to pre (e.g.,	the the design and operating res of the surface impoundment event groundwater contamination liner leachate collection (a). Concrete - based			
1mpoun Please	the approximate size of surface dments (gallons or cubic feet). specify the types of waste and treated.			
5 im	sel rotes poundments: oxidation, equa neutralization.	lization,	dila	ution,
Is thei	re at least two feet of freeboard impoundment?			
Do all cover i integri	earthen dikes have a protective to preserve their structural ity?			
If yes,	please specify the type of covering.	 -		

	YES	NO	N/A
Does the owner/operator have a detailed chemical and physical analysis of a representative sample of the waste in the impoundment?			<u></u>
Does the owner/operator place the results from each waste analysis and trial test, or the documented information, in the operating record of the facility?	<u> </u>		
Does the owner or operator inspect:			
The freeboard level at least once each operating day to insure compliance with 265.222?	1		
The surface impoundment, including dikes and vegetation surrounding the dike, at least once a week to detect any leaks, deterioration or failures in the impoundment?			
Is ignitable or reactive waste placed in the surface impoundment?			
If yes, is the waste treated, rendered, or mixed before or immediately after placement in the impoundment?			
Does the resulting waste, mixture, or dissolution of material no longer meet the definition of ignitable or reactive waste?			
Is the waste treated, rendered or mixed so that it does not:			
Generate extreme heat or pressure, fire or explosion, or violent reaction?			
Produce uncontrolled toxic mists, fumes, dusts, of gases in sufficient quantities to threaten human health?	<u> </u>		
Produce uncontrolled flammable fumes or gases in sufficient quantities to pose a risk of fire or explosion?			
		_	-

	1.EZ	NO	N/A
Damage the structural integrity of the device or facility containing the waste?	/	/	,
Threaten human health or the environment?			
Is the surface impoundment used soley for emergencies?			
Are incompatible wastes, or incompatible wastes and materials placed in the same surface impoundment?		<u></u>	
If yes, is the waste managed so that it does not:		_	
Generate extreme heat or pressure, fire or explosion, or violent reaction?			·/
Produce uncontrolled toxic mists, fumes, dusts, or gases in sufficient quantities to threaten human health?			<u> </u>
Damage the structural integrity of the device or facility containing the waste?		_	_
Threaten human health or the environment?			_
40 CFR Subpart L			
Waste Piles			
How many waste piles are on-site and approximately how large are they? (Please indicate size and height types of wastes in piles.)			
Is the waste pile protected from wind erosion?			/.
a) Does it appear to need such protection?			-
 Explain what type of protection does exist. 			/

265 .253	Containment	YES	NO	N/A
200.200	Concarmient			
	 Is leachate run-off from the waste piles a hazardous waste? If no, skip down to 265.256. 			
	2. Is the pile placed on an impermeable base?			
	3. Is run-on diverted away from the pile?			
	4. Is the leachate and run-off collected and treated?			
	If no to any of the above questions than:			7.
	5. Is the pile protected from precipitation and run-on?	1		
	6. Are waste containing free liquids placed in the pile?			
265.256	1. Are ignitable or reactive wastes placed on the pile? If no, skip to 265.257.			
	 Is the ignitable or reactive waste added to existing pile resulting in it no longer meeting the definition of ignitable and reactive? 			
	If no, please explain.			T
	3. Is the waste protected from any materials or condition that may cause it to ignite or react?			
	If no, please explain.			
				11

YES NO N/A 265.257 Does it appear that a pile of incompatible wastes is being stored separate from other wastes or materials, or protected from them by means of a dike, berm, wall or other devices? If no, please explain. 40 CFR 265 Subpart N 265.300 Landfills Identify the types of waste and size of the landfill. General Operating Requirements Is run-on diverted away from all portions of the landfill? Is run-off from active portions of the landfill collected? Is waste which is subject to wind dispersal controlled? Please explain how.

one no

	YES	NO	N/A
Are untreated, ignitable, or reactive wastes placed in the landfill?	,		}
If yes, explain.			7
	•		
Are incompatible wastes, or incompatible wastes and materials placed in the same hazardous waste landfill cell?			
If yes, explain.			+
Are bulk or non-containerized liquid waste or waste containing free liquids placed in a hazardouswaste landfill?			
If yes:	_	7	1
Does the hazardous waste landfill have a liner which is chemically and physically resistant to the added liquid and a functioning leachate collection and removal system with a capacity sufficient to remove all leachate produced?			
Before disposal, is the liquid waste or waste containing free liquids treated or stabilized, chemically or physically, so that free liquids are no longer present?			1
Are containers holding liquid waste or waste containing free liquids placed in a hazardous waste landfill?			1
If yes:			
Is the container designed to hold liquids or free liquids for a use other than storage, such as a battery?			
			_

To Abe	YES	NO	N/A
Is the container very small, such as an ampule?			/
Are empty containers crushed flat, shredded, or similarly reduced in volume before it is buried beneath the surface of a hazardous waste landfill?			+
Does the owner or operator use Method 9095 (Paint Filter Liquids Test) to demonstrate the absence or presence of free liquids in either a containerized or a bulk waste?	-		
Does the owner or operator of a hazardous waste landfill maintain an operating record regired in 265.73?			7
Does the owner/operator maintain a map, the exact location and dimensions, including depth of each cell with respect to permanently surveyed bench marks?			+
The contents of each cell and the appropriate location of each hazardous waste type within each cell?	_		+
Are containers holding liquid waste or waste containing free liquids place in the landfill?			+
Please describe the types and contents of such containers placed in the landfill.			
Are empty containers placed in the landfill crushed falt, shredded or similarly reduced in volume before they are buried?			
		144	

YES NO N/A

Are small containers of hazardous waste in overpacked drums placed in the landfill?

If yes, please describe precautions taken to prevent the release of the waste.

!

40 CFR 265 Subpart O

265.340 <u>Incinerator</u>

What type of incinerator is at the site (e.g., waterwall incinerator, boiler, fluidized bed, etc.).

List the types and quantities of hazardous waste incinerated.

Solvent waste
Salt. waste

Is the residue from the incinerator a hazardous waste?

What types of air pollution control devices (if any) are installed in the incinerator unit?

Permit No. PFE-50-1084-0773 I-II-0

Is energy recovered from the process?

If yes, describe.

	YES	NO	N/A
What is the destruction and removal efficiency for the organic hazardous waste constituents?			
Scombber water is discharged to Anasco River as per NPDES Permit PRODO0353			
Does the operating record include additional analysis and to determine types of pollutants which might be emitted including:			
Heating value of the waste?			
Halogen and sulfur content?	_		
Concentrations of lead and emergency?	/		
If no to any of the above questions, is there justification and documentation?			_/
If operating, does it appear the incinerator is operating at steady state for conditions of operation, including temperature and air flow?			
Monitoring and Inspection			
Are existing instruments relating to combustion and emission controls monitored every 15 minutes?	<u></u>		
If no, explain.			

	YES	NO	N/A
Does the incinerator have all the following instruments for measuring: wastefeed, auxiliary fuel feed air flow, incinerator temperature scrubber flow, and scrubber pH? (Circle missing instruments.)	<u>/</u>		
If no, explain.			
Is the stack plume observed visually at least hourly for opacity and color?	_		
Are there any signs of leaks, spill and fugitive emission associated with the pumps, valves, conveyors, pipes, etc?			
If yes, describe.			
Are all emergency shutdown controls and system alarms checked to assure proper operation?			
Is there any reason to believe the incinerator is being operated improperly? i.e., steady state condition are not maintained.			
If yes, explain.			

	YES	NO	N/A
Is the incinerator inspected daily?			
Is there open burning of hazardous waste?			
16 was about to the town on the con-	-		—
If yes, what is being burned? (Only burning or detonation of explosives			
is permitted.)			

If open burning or detonation of explosives is taking place, approximately what is the distance from the open burning or detonation to the property of others?

40 CFR 265 Subpart P

265.370 Chemical, Physical and Biological Treatment

!

(Other than in tanks, surface impoundments or plant treatment facilities)

Describe the treatment system at this facility and the types of wastes treated.

N/A

	YES	NO	N/A
Does the treatment process system show any signs of ruptures, leaks or corrosion?	,		+
If yes, describe.			
Is there a means to stop the inflow of continuously-fed hazardous wastes?			+
Inspections			
Is the discharge control safety equipment (e.g., waste feed cut-off systems, by-pass systems, drainage systems and pressure relief systems) in good working order?			
Are they inspected at least once each operation day?			
Does the data gathered from the monitoring equipment (e.g., pressure and temperature gauges) show treatment process is operating according to design?			
Is data gathered at least once each operating day?			1
Are construction materials of the treatment process inspected at least weekly to detect corrosion or leaking of fixtures and seams?			
Are the discharge confinement structures (e.g., dikes) immediately surrounding the treatment unit inspected at least weekly to detect erosion or obvious signs of leakage (e.g., wet spots or dead vegetation)?			

If yes, please explain.

	YES	NO	N/A
Are ignitable or reactive waste fed into the waste treatment system treated or protected from any material or conditions which may cause it to ignite or react?			
If yes, explain how.			
Are the incompatible wastes placed in the same treatment process?			/.

State Requirement: R. 502 A - Hazardous Waste	Generation Records
A. Waste generation log is maintained at the facility (including quantity and type of waste)	<u> </u>
B. Records of all test conducted to analyze wastes or to quantify them are maintained at the facility Comments:	
eas/sec	

ATTACHMENT 2

I and a procession to a collect communication of the collect of th

Inspector:	CDM FAC
Address:	59 JOHN ST NY NY 15038
Telephone No	11 212 -393-9634
	: 16)

RCRA LAND RESTRICTION F-SOLVENT GENERATOR CHECKLIST

. Ha	andler Name	B. Street (or other identified to the street)
	Mayaguez	D. State B. Street (or other identified property No. 20708 E. Zip Code F. County No. 2011
. C1	lty /	D. State E. Zip Code F. County Na
A1-	manu facture of	pharmatoutic a
Na	ture of Business; Identif	pharmeteutical products idation of Operations
65	PRD 0910247	86
	Gabriel Gondler Contact (Name and Pi	arcia
Hai	ndler Contact (Name and Pi	hone Number)
. GI	Puggian	
. 61	ENERATOR COMPLIANCE	
F-	-Solvent Identification	
1.	. Does the handler genera	to the fellowing
	F001	the lolloving vastes?
b.	337 33 7 5 3 4	YesNo
		YesNo
c.	F003	Yes No
	If an FOO3 vastestream	listed solely for ignitability has been mixed with a
	non-restricted solid or	
		stic? Yes No
d.	F004	Yes / No
e.	F005	✓Yes No
2.	Source of the shares re-	res No rm 8700-12; Part A ; Part B; facility personnel communication the inspector and enforcement official
	other (specify) 750	facility Part A; Part B;
endia	K A is intended as a contract	personnel communication
Her	The tacility is seen	
raci	LILLA DESTINATE A TE	are concerned that F-solvent vastes may be misclassified by . Note concerns below:

		Handler Name: ID Number: Inspector: Date:	
В.	BDAT Treatability Group - Treatment Standards Id	entification	
	 Did the generator correctly determine the appropriate treatability group [268.41] of the vaste (Vastevaters containing solvents, pharmaceutical vastevaters containing spent methylene chloride, all other spent solvent vastes)? 	ne Land	Coments Toban restricts fication not Ted
c. :	Yes	No	
	 Did the generator determine whether the waste exceeds treatment standards based on [268.7(a) 	11:	
	a. Knowledge of wastes	No	
	c. Other (specify)		//
	If knowledge, note how this is adequate:		
	If determined by TCLP, provide date of last terrequency of testing, and attach test results. Dates/frequency:	st,	
	Note any problems:		
	d. Were vastes tested using TCLP when a proces vastestream changed?		
2.	Did the F-solvent vastes exceed applicable treatability group treatment standards upon generation [268.7(a)(2)]? Yes Some	_No	1/
3.	Did the generator dilute the vaste or the treatresidual so as to substitute for adequate treatresidual. Yes	gen t	//
Man	nagement		
1.	Onsite management		
	a. Were F-solvent vastes managed onsite? Yes	No	
If	yes, answer 1(b) and (c); if no, answer 2.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

		ID Number:	
		Inspector: Date:	
b.	For vastes that exceed treatment st treatment, storage, and/or disposal	andards, vas conducted? Yes No	Comments
If yes,	TSDF Checklist must be completed.		information not available
c.	Are test results maintained in the record [264.74(b)3/265.73(b)(3)]?		available.
2 000		Yes No	
2. Offs	ite Management		
	If F-solvent vastes exceed treatment did generator provide treatment faci [268.7(a)(1)]:	standards,	
		YesNo	
(ii)	Applicable treatment standard?	Yes No	
	Manifest auch	Yes No	•
(iv)	Waste analysis data, if available?		1/
		YesNo	
Identify	offsite treatment facilities		
	f F-solvent vastes did not exceed tr tandards, did generator provide the acility [268.7(a)(2)]:	reatment disposal	
(i)	EPA Hazardous vaste number?	esNo	
(ii)	Applicable treatment standard?Y	es No	
(iii)	Manifest number?	es No	11
(iv)	Waste analysis data, if available?	es No	
(v)	Certification that waste meets treatment standards?	es No	
Identify 1 certified	and disposal facilities receiving th	ne BDAT	
certified	/astes		

	Handler Name: ID Number: Inspector: Date:	OSWER 9938
c. If vaste is subject to nationvide variations [268.30] (e.g., solvent-vater mixtures than 1%), case-by-case extension [268.5] petition [268.6] does generator provide to disposer that vaste is exempt from 1 disposal restrictions [268.7(a)(3)]?	ance less 5) or e notice land	Comments
Yes Storage of F-Solvent Waste	No	
 Vas F-solvent vaste stored for greater than days (after variance 180/270 days for SQG) [268.50(a)(1)]? Yes		(1,)?
If yes, was facility operating as a TSD under in		
es, TSDF Checklist must be completed.		
Treatment Using RCRA 264/265 Exempt Units or Pro (i.e., boilers, furnaces, distillation units, wastewater treatment tanks, etc.)	ocesses	
Vere treatment residuals generated from RCRA 264/265 exempt units or		

If the residuals from a RCRA-exempt treatment unit are above the treatment standards, the owner/operator is considered a generator of restricted vaste. The inspector should determine whether the generator requirements, particularly waste identification requirements, have been met for the treatment

Yes

If yes, TSDF Checklist must be completed.

If yes, list type of treatment unit and processes

from RCRA 264/265 exempt units or

incinerator, WTP

E.

F.

1.

processes?

		Facility Name: ID Number: Inspector: Date:
St	orage [268.50]	
a.	Were restricted vastes exceeding treatment standards stored? Yes	√No As
	If no, go to "D."	
ь.	content and date(s) entering storage?	
c.	Do operating records track the location, quan and dates that vaste exceeding treatment stanentered and were removed from storage?	dards
d.	Do operating records agree with container lab	eling?
e.	_	for
	- N/A -	ment,
£.	Vere tanks emptied at least once per year, and operating records show that volume of waste refrom tanks annually at least equals tank volumer Yes	
g.	Was/is waste exceeding treatment standards stofor more than one year? Yes	red No
	If yes, state the owner/operator's proof that storage was solely for the purposes of accumulation of such quantities of hazardous waste as are necessary to facilitate proper recovery, treatmor disposal:	tion
h.	Are F-solvent wastes exceeding treatment standa "stored" in surface impoundments?Yes	rds No
Trea	atment in Surface Impoundments [268.4]	
Were plac	F001-F005 vastes exceeding treatment standards ed in surface impoundments for treatment? Yes	
If n	no, go to E.	

c.

1.

D.

	Facility Name: ID Number: Inspector: Date:
 Did the facility submit a certification of with minimum technology and ground water more requirements, and the waste analysis plan to Agency? 	oni a a min
3. Have the minimum technology requirements	Yes No
a. If the minimum technology requirements been met, has a waiver been granted for unit(s)?	have not that Yes No
Bave the Subpart F ground-water monitoring been met?	requirements YesNo
Have representative samples of the sludge as supernatant from the surface impoundment become separately, acceptably, and in accordance visampling frequency and analysis specified in analysis plan and are the results in the operecord [264.13/265.13] and [264.73/265.73]?	en tested ith the
Did the hazardous vaste residue (sludge or lexceed the treatment standards specified in	YesNo liquid) [268.41]? Yes No
Provide the frequency of analyses conducted treatment residues:	
Does the operating record adequately documen results of waste analyses performed in accord [268.41] and [264.73/265.73] Have the hazardous waste residues that exceed treatment standards [268.41] been removed adeand on an annual basis?	dance with YesNo
a. If answer is no and supernatant is determ exceed treatment concentrations, is annua throughput greater than impoundment volum	nined to
If residues were removed annually, were adeque precautions taken to protect liners and do reindicate that inspections of liner integrity	ate
When removed, were solvent wastes managed sub in another surface impoundment?	

- CATEGORIUM

- - - - -

	Facility Name: ID Number: Inspector: Date:
. When removed, were wastes treated prior to dispose	osal? Comment
a. If yes, are waste residues treated on or off	fsite? — NA
b. Identify management method	
Treatment	
Did the facility operate treatment facilities fo F-solvent waste (not including surface impoundmeYes	nts)?
If no, go to "F."	
Describe the treatment processes for F-solvent va	
Does the facility, in accordance with an acceptatuaste analysis plan, verify that the residue extra from all treatment processes for the F-solvent was are less than treatment standards [268.7(b)(2)]? Yes	ract istes No
Describe frequency of testing of treatment residu	als.
Vas dilution used as a substitute for treatment [268.3]?	No
Are certifications and results of waste analyses in the operating record [264.73(b)(3)/265.73(b)(3) [268.7(c)]?	kept
Are notice with waste number, treatment standard, manifest number, amd analytical data (where available submitted for each shipment of waste or treatment.	able)
residual that meets the treatment standard stating waste has been treated to treatment performance standards [268.7(b)]?	No No
re certifications submitted for each shipment 268.7(b)(2)(i)]? Yes	- No

	ID Nu	lity Name: umber:
F.	Land Disposal	
1.	Vere F-solvent wastes placed in land disposal units (landfills, surface impoundments [for this question, do not include if in "D"] waste piles, wells, land treatment units, salt domes/beds, mines/caves concrete wault or bunker?	Comments
2.	generators/treaters in its operating record [268.7(c); 268.7(a).(b)12	
3.	Did the facility obtain vaste analysis data through in compliance with the applicable treatment standards [268.7(c)]?	
	If yes, at what frequency?	
	Were F-solvent vastes exceeding the treatment standards placed in land disposal units excluding national capacity variances [268.30(a)]?	
	no migration petition [268.6] or approved case-by-case variance [268.44]?	
. u	Yes No assert vastes subject to a national or case-by-	
•	- If yes, were these vastes disposed of in a facility landfill or impoundment?	
	If (a) is yes, have the minimum technology requirements been met for all such units at the facility [268.5(h)(2)] and [268.30(b)]?	
Ve	YesNoYesNoYesNoYesNoYesNoYesNoYesNoYesNoYesNoYesNoYesNoYesYes	
If cas	YesNo	
	t is the volume of F-solvent waste disposed to date	

-7,752

OSVER	9010	
COMEN	7738.	. 1

	ID Nu	mber:
9.	If the facility has a case-by-case extension, can the inspector verify that the facility is making progress as described in progress reports [268.5]? Yes No	Comments - NA

Handler Name: ID Number:

		Inspector:
		APPENDIX A
	SOLVENT IDE	NTIFICATION CHECKLIST
1.	Does the handler generate any of the constituents (i.e., spent halogenate degreasing) as a result of being use either in pure form or commercial grant of the commercial grant	ed solvents used in
	tetrachloroethylene trichloroethylene methylene chloride 1.1,1-trichloroethane carbon tetrachloride	Yes No Yes No Yes No Yes No Yes No Yes No
2.	Does the handler generate any of the constituents (i.e., spent halogenate result of being used in the process or commercial grade?	d salvantal
	tetrachloroethylene trichloroethylene methylene chloride -1,1,1-trichloroethane chlorobenzene trichlorofluoromethane 1,1,2-trichloro-1,2,2-trifluoroethanortho-dichlorobenzene	Yes No
	Does the handler generate any of the constituents (i.e., spent nonhalogenate result of being used in the process of form or commercial grade?	send aslusasas
	xylene acetone ethyl acetate ethyl benzene ethyl ether methyl isobutyl ketone n-butyl alcohol cyclohexanone methanol	Yes
	If the F003 vastestream has been mixe vaste, does the resultant mixture exhignitability characteristic?	ed with a solid with the YesNo addressNo

OSWER	9938	ì
	7720.	

Handler Nam	e:	
ID Number:		
Inspector:		
Date:		

With respect to the F003 solvent vastes, if, before use, the vastestream is mixed and contains only F003 constituents, it is a listed vaste. For example:

Comments

33% acetone
16% methanol
51% ethyl ether

If the vastestream is a mixture containing F003 constituents and a total of 10% or more of one or more of the F001, F002, F004, and F005 listed constituents before use, it is a listed vaste.

For example:

50% xylene F003 12% TCE F001 38% mineral spirits

If in light of the above, the handler appears to be generating F001-f005 hazardous wastes, refer this facility to the enforcement official for follow-up actions verifying the use of solvents at the facility.

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	ID Number: Inspector: Date:
constituents (i.e., spent nonlinesult of being used in the proof commercial grade?	of the following F004 nalogenated solvents) as a rocess either in pure form
cresols and cresylic acid nitrobenzene	YesNo adbress
Does the handler generate any constituents (i.e., spent nonh result of being used in the pr or commercial grade?	of the following FOOS
toluene methyl ethyl ketone carbon disulfide isobutanol pyridine	Yes No Yes No Yes No Yes No Yes No Yes No
Are any of the constituents lisused for their "solvent" proper solubilize (dissolve) or mobili The following questions will be this determination.	ted in the questions 1-5
(a) Chemical carriers?	YesNo adbrest
If the answer is yes, list the	constituents.
(b) Degreasing/cleaning?	YesNo
If the answer is yes, list the c	onstituents.
(c) Diluents?	Yes No
If the answer is yes, list the c	

TWO THE PARTY

	Handler ID Numb Inspect Date:	er:	
(d) Extractants?Yes	No		Comments
If the answer is yes, list the constituents.			Comment
(e) Fabric scouring?Yes	No		
If the answer is yes, list the constituents.		adtract	
(f) Reaction and synthesis media?Yes	No		
If the answer is yes, list the constituents.			
questions 1-6 led the inspector to believe that the solvent, answer question 7. Are any of the above constituents spent solvents? solvent is considered "spent" when it has been use is no longer used without being regenerated, recla or otherwise reprocessed. Yes	A d and imed, No	y be an	
If the waste is a mixture of constituents as determine questions 1-7, answer this to determine whether is a "solvent mixture" covered by the listings.	mined it		
If the vastestream is mixed and contains more than of the F001-F005 constituents listed in questions (by volume), give the concentration before use of a the constituents in the solvent mixture/blend. For example:	1-5 111		
5% methylene chloride 2% trichloroethylene 25% 1,1,1-trichloroethane 68% mineral spirits			
If the wastestream is a mixture containing a total 10% or more (by volume) of one or more of the F001, F002. F004, or F005 listed constituents before use, is a listed waste.			

APPENDIX B
TREATMENT STANDARDS FOR F-SOLVENTS

FOO1-FOO5 SPENT SOLVENTS	CUNCENTRA	TION (IN MG/L)
	VASTEVATERS	OTHER VASTE
Acetone	0.05	
N-butyl alcohol	0.05	0.59
Carbon disulfide	5.0	5.0
Carbon tetrachloride	1.05	4.81
Chlorobenzene	.05	.96
Cresols (and cresylic acid)	.15	.05
Cyclohexanone	2.82	.75
1,2-dichlorobenzene	.125	.75
Ethyl acetate	.65	.125
Ethyl benzene	.05	.75
Ethyl ether	.05	.053
Sobutanol -	.05	.75
dethanol	5.0	5.0
ethylene chloride	. 25	.75
ethylene chloride	.20	. 96
ethylene chloride (from the pharmaceutical industry)		
	12.7	.96
ethyl ethyl ketone	0.05	0.75
ethyl isobutyl ketone	0.05	0.33
trobenzene	0.66	0.125
ridine	1.12	0.33
trachloroethylene	0.079	0.05
luene	1.12	
1,1-Trichloroethane	1.05	0.33
2,2-Trichloro 1,2,2-trifluoroethane	1.05	0.41
chloroethylene	0.062	0.96
ichlorofluoromethane	0.05	0.091
lene	0.05	0.96

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LIST OF U WASTES (40CFR 261.33(f) legible copy

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ATTACHMENT 3

EXHIBIT 1

LABOR. /ORY TEST REPORT

- ELI LILLY INDUSTRIES INC
- PO BOX 1748
 - MAYAGUEZ PR 00708
- . ATTN ENG GABRIEL GARCIA



Date: APRIL 7,1987
Page 1 of 1

EQ LAB		CLIENT
W.O.#: 111-02-13 D.S.#: 11560 Date Sample Gollected / Received:	Feb.5/87	Facility: Mayaguez P.O.#: Date Sample Collected: Feb. 5/87
	ource: Cank #13 (Tanque Pi	Description:

SAMPLE #	PARAMETERS	RESULTS	UNIT	REMARKS
21703	Specific Gravity	0.900		
	Fixed Solids (Ash)	0.10	%	
	BTU	15,416	BTU/1b	
	Total Organic Halogen	< 0.1	%	
	Acetonitrile*	1,700	mg/L	
	Water Content, K.F. *	1.10	%	
	Viscosity at 100°C *	2.3	cSt	

Analysis performed at Gascoyne Laboratories Inc.

MARTINEZ MAR

Reported by:

Title:

ISMAEL MARTINEZ LABORATORY MANASER Released by:

Title:

JOSE G. VILA GENERAL MANAGER

LABOK JORY TEST REPORT

• ELI LILLY INDUSTRIES INC PO BOX 1748

MAYAGUEZ PR 00708 ATTN ENG GABRIEL GARCIA



Date: APRIL 7,1987 Page 1 of 1

	EQ LAB	CLIENT	
W.O.#: 111-02-13 D.S.#: 11559 Date Sample Collecte		Facility: Mayaguez P.O.#: Date Sample Collected: Feb. 5/87	
Sample #:	Source:	Description:	
21704	Tank #7 (Tanque Sec	undario) Cold Waste	

SAMPLE #	PARAMETERS	RESULTS	UNIT	REMARKS
21704	Specific Gravity	0.984		
	Fixed Solids (Ash)	0.05	%	
	BTU	758	BTU/1b	
	Total Organic Halogen	0.1	%	
	Acetonitrile*	980	mg/L	
	Water Content, K.F.*	86.6	%	
	Viscosity at 100°C *	2.0	cSt	

*Analysis performed at Gascoyne Laboratories Inc.

CIA NUM.

Reported by:

Title:

ISMAEL MARTINEZ LABORATORY MANAGER Released by Title:

JOSE G. VILA

GENERAL MANAGER

ATTACHMENT 3

EXHIBIT 2



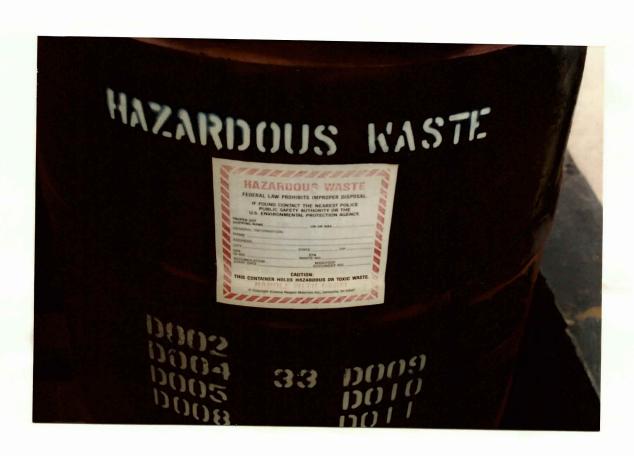




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ATTACHMENT 3
EXHIBIT 3

Environme...al Quality

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Environme ... al ENVIRONMENTAL QUALITY ... OARD

P.O. Box 11488, Santurce, Puerto Rico 00910

Board (Form designed for use on elite (12-pitch) typewriter.) Form Approved OMB No 2000-0404 Expires 7-34-86 Please print or type 1. Generator's US EPA ID No. UNIFORM HAZARDOUS Manifest Information in the shaded area is not required by Federat Document No WASTE MANIFEST Generator's Name and Mailing Address A.State Manifest Document Number ELI LILLY INDUSTRIES, INC. PRO1 B.State Generator's ID C.State Hallsboller & ID 5. Transporter 1 Company Name D.Transporter's PhoesD980567196 Transporter 2 Company Name E. State Transport 759-9220 F. Transporter's Phone 9. Designated Facility Name and Site Address **US EPA ID Number** G.State Facility's ID ELI LILLY INDUSTRIES, INC. H.Facility 8129 1924786 KM. 147 Road #2 Sabanetas Wward Mayaguez. P.R. 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number Total Unit Waste No. Type Quantity Wt/Vo Flammable Hazardous Waste Mixture Ethanol and Water UN-1987 D001 F002, U044 Halogenated (Flammable) F001, U231 Waste Solvent N.O.S. ORM-A NA-1993 D009, D0011 Hazardous Waste Liquid N.O.S. ORM-E NA-9189 [Corrosive) 1 DF 40 D007 Waste Flammable Liquid F003, D661 (Non-Halogenated) UN-1987 1 J. Additional Descriptions for Materials Listed Above K. Handling Codes for Wastes Listed Above a, b, and d - S02-T06 15. Special Handling Instructions and Additional Information 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations. Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage or disposal currently available to me which minimizes the present and future threat to human health and the environment. Date Printed/Typed Name Month Day Year 17. Transporter Garacina wiedgement of Receipt of Materials Date Month Day Printed/Typed Name Signature Year 10-15 Olais Foter D10 Provided gement or Receipt of Materials Date Printed/Typed Name Signature Month Day Year 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Date Signature Printed/Typed Name JOSEA BOSTUCS PECL Month Day Year P3 PX

ATTACHMENT 3

EXHIBIT 4

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COMMONWEALTH OF PUER. RICC Environmental ENVIRONMENTAL QUALITY BOARD

P.O. Box 11488, Santurce, Puerto Rico 00910

WASTE MANIFEST PRO 9 8 0 2 9 8 7 6 4 8 90 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	e print or type. (Form designed for use on elite (12-pitch) typewrite		anifest				0404. Expires 7-31-
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ATTACHMENT 3
EXHIBIT 5

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COMMUNWEALTH OF PUEH HICO Environmental ENVIRONMENTAL QUALITY BOARD Quality P.O. Box 11488, Santurce, Puerto Rico 00910

P.O. Box 11488, Santurce, Puerto Rico 00910

EXPIRES: 9-30-88

e print or type. (Form designed for use on elite (12-pitch) typewriter.)	Form	Form A		OMB No		0404 Expires 7-
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Environmental Quality Board

Environmental ENVIRONMENTAL QUALITY BOARD

P.O. Box 11488, Santurce, Puerto Rico 00910

Expires: 9-30-88

Form Approved: ONB NO.2050-003

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ATTACHMENT 3

EXHIBIT 6



Environmental ENVIRONMENTAL QUALITY B ARD

P.O. Box 11488, Santurce, Puerto Rico 00910

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COMMONWEALIN OF PUER 'THICU

nvironme. al ENVIRONMENTAL QUALITY JARD P.O. Box 11488, Santurce, Puerto Rico 00910 Board (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2000-0404 Expires 7-31-86 1. Generator's US EPA ID No. UNIFORM HAZARDOUS Manifest 2. Page 1 Information in the shaded areas Document No. is not required by Federal PRD 19102 4736 WASTE MANIFEST ator's Name and Mailing Address A.State Manifest Document Number LILLY INDOSTRIES, PRUG Like. 1. 147, RD. +2, SABANETA WARD LYAGUEZ, P. R. 00700 B.State Generator's ID 4. Generator's Phone (805 834-7846 PRD091024786 5. Transporter 1 Company Name US EPA ID Number C.State Transporter's ID D.Transporter's Phone (209) 769-9120 TRUCKING D-9-8-0-5-2-7-1-9-0 7. Transporter 2 Company Name US EPA ID Number E.State Transporter's ID F. Transporter's Phone 9. Designated Facility Name and Site Address 10 US EPA ID Number G.State Facility's ID CALL BOX 1198 PUZBLO STATION H.Facility's Phone 00628-1198 CAROLINA, P.A. PRD9-8-0-4-3-6-8-6-7 (809) 757-4000 BUAHD 12.Containers 13 14. 11. US DOT Description (Including Proper Shipping Name, Hezard Class, and ID Number, Total Unit Waste No. Type M/Vol Quantity MASTE PLANMABLE LIQUID M.O.S. MISOPROPANOL/WATER MIXTURE) UN-1993 DOUL .. Additional Descriptions for Materials Listed Above K. Handling Codes for Wastes Listed Above SC2-TO6 5. Special Handling Instructions and Additional Information ANDLE WITH CARE, AVOID INHALATION. DO BUT HANDLE YEAR ANY OPEN FLAME GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations. Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage or disposal currently available to me which minimizes the present and future threat to human health and the environment. Date Printed/Typed Name Signature Year Month Day 7. Transporter 1 Acknowledgement of Receipt of Materials Date Printed/Typed Name Signature Month Day Year Wan 10710418 8. Transporter 2 Acknowledgement or Receipt of Materials Date Printed/Typed Name Signature Month Day Year 3. Discrepancy Indication Space Daveelto

Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in tem. 19.

Signature

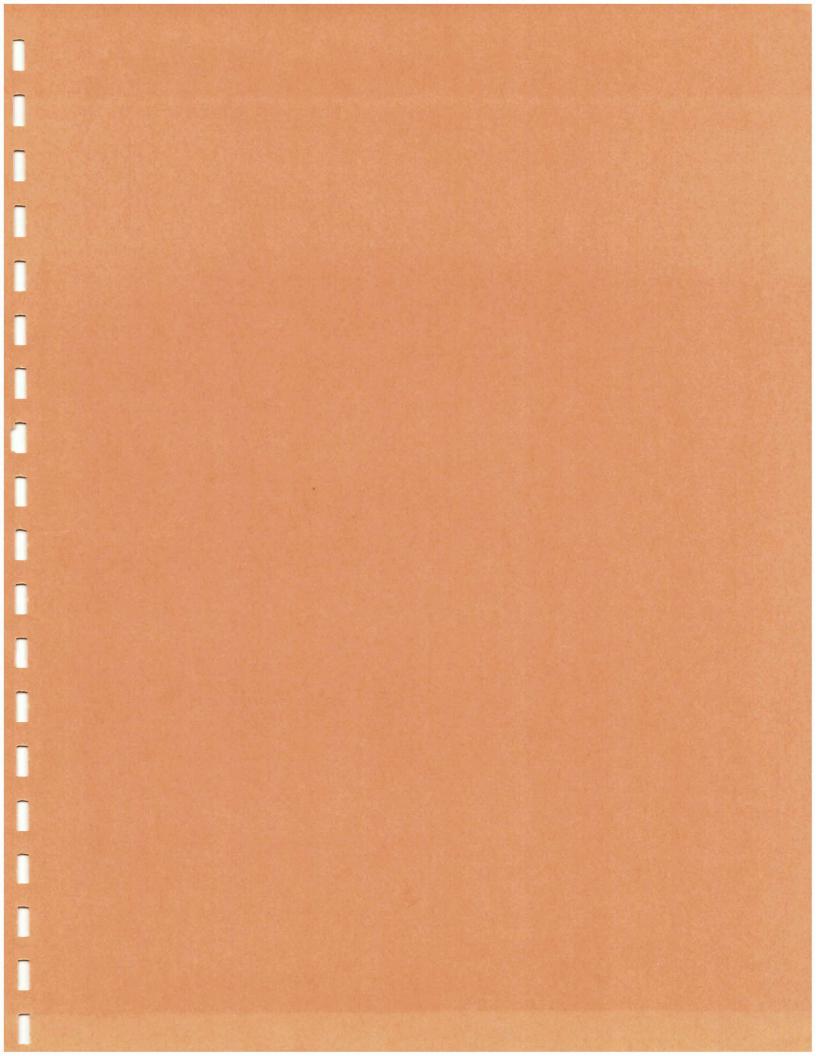
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Permits Administration Environmental Protection

Region II, 26 Federal Plaza New York, N.Y. 10278

Dear Mr. Ruissi:

Mr. Harry Ruissi

Branch

Agency

We are including all the information with regard to the Full RCRA Generator and Interim Status Reinspection, performed on March 16, 1983, to the Eli Lilly Industries Incorporated, located in Mayaguez, Puerto Rico.

Please do not hesitate to contact us for any additional information.

Cordially yours,

Manillas

Eng. Bartolomé J. Cañellas

Acting Director

Land Pollution Control

Area

Enclosures



May 6, 1983

NEW YORK NOT ROTECTION

MEMORANDUM

TO	:	Eng. Luis E. de la Cruz, Associate Member
THROUGH	:	Eng. Bartolomé J. Cañellas, Director
	:	Mr. Beato Alvarado, Chief Surveillance Section
FROM	•	Tomás Sanabria González
SUBJECT		
SOBUECI		Eli Lilly Industries, Inc.
		EPA I.D. No. <u>PRT000010066</u>
		1
		ries, Inc. , located in
Mayaguez		_, Puerto Rico was visited on March
16, 1983	, w:	ith the purpose of performing a Full
RCRA Generato	or and In	terim Status Re-
Inspection.		
The foll enclosed:	owing do	cuments related to this inspection are
(X) Tr	ansmitta:	l letter to EPA
(X) In	spection	report
(X) No	tification	on to the industry - Letter
(X) RC	RA Inspe	ction Review Sheet GEN
		ator Inspection Form
		ction Review Sheet - TRANSP.
		porter Inspection Form
	_	ction Review Sheet - TSD

Eng. Luis E. de la Cruz Memo Page Number 2

(X) RCRA TSD Inspection Form
()
Attachments:

- 1) Appendix No-J2
- 2) Appendix No-02
- 3) Copies of the following records:
 - a. hazardous waste containers inspections
 - hazardous waste storage tanks inspection
 log
 - c. daily summary of waste handling activities
 - d. incinerators inspection log
 - e. manifests

COMMONWEALTH OF PUERTO RICO / OFFICE OF THE GOVERNOR



May 5, 1983

Mr. Vicente Díaz Project Engineer Eli Lilly Industries, Inc. P.O. Box 1748 Mayaguez, Puerto Rico 00708

REF: Notice of Deficiencies

Dear Mr. Díaz:

Reference is made to the Full RCRA Generator and Interim Status Reinspection performed to your company on March 16, 1983, by technical personnel of the Land Pollution Control Area.

You are hereby informed that your company is not in compliance with Federal and Local Regulations. At the time of the inspection the following deficiencies were found:

A. Written Waste Analysis Plan

It does not include a description of the physical and chemical characteristics of the hazardous waste generated, as requested by Section 265.13, General Waste Analysis, and Rule 807 I, Chemical and Physical Analysis of the Federal and State Regulation, respectively.

B. Personnel Trainning

As required by Rule 808 C 4 of the State Regulation, all the facility personnel must take in an annual review of the initial trainning required.

At the time of the inspection, this requirement was not performed, as stated by the above mentioned rule.

Mr. Vicente Díaz Eli Lilly Ind., Inc. Page Number 2 May 5, 1983

C. Incinerator

We would like to know the destruction and removal efficiency for the organic hazardous waste constituents.

Your company will have to comply with item A, B and C correcting the deficiencies and submitting pertinent evidence to this Board prior to May 30, 1983.

If you need further assistance, please, do not hesitate to contact us.

Cordially yours,

Bartolomé J. Cañellas

Acting Director

Land Pollution Control

Area

/mmoc

SUMMARY OF FINDINGS

On March 16, 1983, Eli Lilly Industries Incorporated, located on Road #2, Km. 146.7, Sabaneta Ward, Mayaguez, Puerto Rico, was visited in order to perform a Full RCRA Generator and Interim Status Reinspection.

During the reinspection, Mr. Vicente Díaz, Project Engineer, Mr. Felipe Belgodere, Director Chemical Operations, and Mr. Gabriel García, Project Engineer of the above mentioned company met with personnel of the Hazardous Waste Bureau, and the following information was gathered:

A. General Information

Eli Lilly Industries, Inc., of Mayaguez is part of an industrial pharmaceutical complex, which is constituted by two (2) companies, Eli Lilly Industries, and Eli Lilly and Pharmaceutical Company, all of these located in Carolina, Puerto Rico. Its matrix company is Eli Lilly and Company located in Indianapolis, Indiana, U.S.

The Eli Lilly Industries of Mayaguez EPA identification number is PRT 000010066.

The general process of the industry is based in the preparation of pharmaceuticals products (medical products) such as:

- 1. Propoxyphene hydrochloride
- 2. Propoxyphene napsylate
- 3. Dextro carbenol base
- 4. Acetohexamide, and
- 5. Erythromicin estolate

The raw material are processed through chemical reactions, destillations, extractions, separations and drying processes to produce intermediates and final products, which are finally sent to its matrix company in Indiana, U.S.

Actually, the industry generates only:

- 1. Acetone 11,420 gal/wk
- 2. Ethyl ether 265 gal/wk
- 3. Toluene 1,100 gal/wk
- 4. Ethyl acetate 3,000 gal/wk

(These quantities are approximates.)

Summary of Findings Eli Lilly Ind. - Mayaguez Page Number 2 May 2, 1983

If you refer to attachment #5, Schematic diagram to production facilities, we can observe the general process in which these chemical substances are used. It indicates how they are used, stored, recovered and disposed in the Waste Treatment Plant.

At respect, the industry has a biological treatment plant which consist of:

- 1. three (3) storage tanks, A, B, and C
- 2. neutralization pits
- 3. equalization lagoon (46,000 gals.)
- 4. oxidation lagoon (192,000 gals.)
- 5. clarifier (28,184.)
- 6. chlorination tank
- 7. thickner (11,986 gals.), and
- 8. sludge filters

(Refer to attachment #6, Waste Water Treatment Facility).

Tank A is used for acid solutions and tank B for caustic solutions control flow from tanks A and B is neutralized in a pit and passed through an equalizer. After equalization, waste flow is diluted with well water and pumped in the Oxidation Lagoon, where biological degradation takes place. From the Oxidation Lagoon, the control mixed liquor enter to the clarifier, where the clear water flows to a chloroxination tank. After chlorination, water is discharged to the Añasco River. (They do analysis of this water, refer to attachment #7, was effluent discharged to the river). This analysis includes the following parameters:

- 1. COD
- 2. BOD 5
- 3. TSS
- 4. TKN
- 5. TOC
- 6. pH

The analysis is performed each day of operation (a copy of their record, was requested, attachment #7). The concentrated mixed liquor of the clarifier is pumped back to the oxidation lagoon and to the thickner. From the thickner, the sludge is filtered through two (2) Door Oliver Vacuum Filters.

Summary of Findings Eli Lilly Ind. - Mayaguez Page Number 3 May 2, 1983

The solid is placed in the container and disposed of in the Mayaguez Municipal Landfill. The filtrated residue is pumped back to the equalization lagoon.

They sample the different sections of the treatment plant. This analysis are made at 9:00 am, 1:00 pm, 5:00 pm, and 9:00 pm, (refer to the attachment #8 and 9) each day of use. The sludge generated from this treatment plant was analyzed by Orlando Laboratories, Inc., in Florida, (refer to attachment #1). It revealed that this waste is not hazardous. (Refer to attachment #10, letter sent to U.S. Environmental Protection Agency, RE: Petition of Hazardous Waste Delisting, which explain this aspect in more details).

In regard to the other wastes generated, they have been stored in steel drums, 55 gallons each, since 1974. Refer to attachment #11 and 12 where you can see the storage area. The tanks that are marked with an X, are the two (2) tanks with dikes of 12,000 gallons. These tanks are used to store solvents which are finally incinerated. The solvents of smaller concentration (diluted) are stored in steel drums in the Drum Storage Area. (Refer to attachment #12, Figure B).

Actually, they are not storing in drums. Since November, 19, 1981, they have been storing in the superficial tanks (8' diam) above mentioned for incineration.

B. Information Related With Inspection Performed on July 8, 1981

At the time of the inspection they were constructing a Drum Storage Area. (Refer to attachment #11 and 12). It has dimensions of $40' \times 100'$, a dike and a collection dike for spill, which connect with the hazardous waste storage tank. This area is outdoors, and near by there is a fire hose in case of emergency.

There were stored approximately (800) eight hundred 55 — gallons steel drums. As we mentioned previously, they have hazardous waste since 1974. Now they are changing the damaged corroded steel drums for new ones and labeling them for storage. Finally they would incinerate them. If you refer to attachment #13, you can observe the hazardous waste list, quantity, physical

Summary of Findings Eli Lilly Ind. - Mayaguez Page Number 4

state, kind of containers and condition and the identification. These are the only documents that the industry has of their hazardous waste.

They use an internal codification system for that, for example:

A- 1 is acetone residues from T-30 (T-30 is a process).

The industry has a Brule incinerator and a thermal research incinerator (for final disposal methods). All wastes incinerated comes from the above mentioned hazardous waste tanks. The only documents that they have at respect, is the attachment #14, Fuel Consumption and percent Sulfur content report, and the attachment #15 for the Brule incinerator, which is a small record of the operational hours.

During the inspection we observed that one of the hazardous storage tank was leaking. Mr. Díaz gave instructions for reparations.

At the time of the inspection, the industry had only received one shipment from Eli Lilly Industries of Carolina. It consisted of: flammable liq. NOS, liq. 220 gallons, F005. I requested a copy of the manifest used, but Mr. Díaz could not find it. I had previous knowledge of the existance of this manifest, because we have copy of it in our office. If you refer to attachment #3, used by the company. It has all the requirements required in the manifest system.

In relation with the documents requested in Part 265 (Standdard for Owners and Operators of Hazardous Waste Treatment, Storage and Disposal Facilities) of the Federal Register, of May 19, 1980, Eli Lilly of Mayaguez did not have the following documents:

- 1. Written Waste Analysis Plan
- 2. Operating Record of the Hazardous Waste Treatment, Storage and Disposal
- 3. Closure Plan
- 4. General Inspection Records for Treatment, Storage and Disposal of Hazardous Waste
- 5. Revision of the most recent chemical analysis performed of their hazardous wastes

Summary of Findings Eli Lilly Ind. - Mayaguez Page Number 5 May 2, 1983

6. Documentation on Personnel Trainning on Hazardous Waste Handling

All these sections are articles of the above mentioned Federal Register. Since the industry did not have these documents, we consider the industry in violation of Part 265, of the Federal Regulation.

C. <u>Information Related With Inspection Performed on August</u> 24, 1982:

At the time of the inspection, the Drum Storage Area constructed. (For description, refer to Part B, information related with inspection performed on July 8, 1981). All the steels drums were in good conditions and labelled.

In regard to the Brule incinerator, the industry has all the records and inspections required by Subpart O, Section 265.340 - 265.351. Refer to the Hazardous Waste Management Plan, which include copy of these records and inspections.

In relation with the documents requested in Part 265 (Standards for Owners and Operators of Hazardous Waste Treatment, Storage and Disposal Facilities) of the Federal Register, of May 19, 1980, Eli Lilly of Mayaguez did not have the Written Waste Analysis Plan, according to Section 265.13, of the above mentioned Federal Register. At this respect, Mr. Díaz was informed. He indicated that the same will be submitted to our Program on November, 1982, since they are using some laboratories of United States for the development of the chemical analysis.

D. <u>Information Related With Inspection Performed On March</u>
16, 1983

At the time of the inspection, all records stipulated in the Hazardous Waste Management Plan submitted by the company during other inspections were evaluated. These were:

- a. Hazardous waste containers inspections
- b. Hazardous waste storage tanks inspection log
- c. Daily summary of waste handling activities
- d. Incinerators inspection log, and
- e. manifest system

Summary of Findings Eli Lilly Ind. - Mayaguez Page Number 6 May 6, 1983

Copies of each one of these above mentioned items were required. They were evaluated and they are in compliance with Federal and State Regulation.

During the inspection forms of the 1982, Generator and TSD/Facility State Annual Report wa given to Mr. Díaz. At this respect, we indicated him that Eli Lilly Industries, Ind., had thirty (30) days upon the receipt of these forms to submit them duly completed to our Program. In addition, our orientation in regard to how file the manifiest systems was given, since they were evaluated, during the inspection, and some deficiencies were found.

A discussion in regard to the Written Analysis Plan was performed. We indicated to Mr. Díaz, that this document was required by Section 265.13 of the 40 CFR of May 19, 1980. During the conversation a description of its context was given.

In this regard, Mr. Díaz gave us two appendixs (No. J-2 and 0-2), neither one were included in the Hazardous Waste Management Plan of 6-2-82, (revised version).

These appendixs included:

- a) Waste to be sample
- b) Sampling procedure
- c) Parameters to be analyzed
- d) Sampling methods
- e) Frequency

According to the submitted Appendix No. 0-2, the waste analysis for incineration should be performed on a campaing basis. Therefore the company should performed a hazardous waste chemical analysis each time that the campaign changes

Those analysis must be included in the Written Waste Analysis Plan. We indicate that such analysis can be ammended i.e.. When the campaign changes, a new hazardous waste chemical analysis is must be performed an included in the document in regard.

At this respect, the industry will performed the chemical analysis required in this section, according to the requirements of those appendixs. This chemical analysis will included a description of the physical and chemical characteristics of the hazardous waste generated.

Summary of Findings Eli Lilly Ind. - Mayaguez Page Number 7 May 2, 1983

In regard to the functioning of the incinerator, we wanted to know the destruction and removal efficiency for the organic hazardous waste constituents.

At this matter Mr. Diaz indicated, that this information will be submitted later, since at this moment, he did not know exactly.

In addition we indicated that according to Rule 808 C 4, facility personnel must take part in an annual review of the initial trainning required.

At the time of the inspection, the requirement was not performed as stated by the above mentioned Rule. To this matter, the industry requested a period of time to perform the necessary steps with its consult company (Engineering Sciences in U.S.A.)

The hazardous waste storage area was inspected, and had four, fifty-five steels gallons drums, which arises of Eli Lilly Industries of Carolina. Copies of the manifest system used by Eli Lilly of Carolina are included. The EPA I.D. No. of these manifest needs to be corrected since the industry filled this items with PCT instead of PRT. We indicated to Mr. Díaz, that PCT is incorrect, since this capital letter means Puerto Rico. This drums were in good conditions and properly labelled. Eli Lilly Industries of Mayaguez had records and located plan of this drums inside the hazardous waste storage area.

During the inspections performed on July 8, 1981, and August 24, 1982, we had find a lot of hazardous waste contains stored.

At this time, as we mentioned previously, only four, 55 steels gallons drums were found, since Eli Lilly of Mayaguez incinerated all the waste that can be incinerated, and the remaining were disposed of in Servicios Carbareón. Copies of the manifest are included. Two shipments were performed on October 21, and 22, 1982. The waste disposed were:

- a. waste acetone residues flammable
 - b. hazardous waste liquid

A total of 130,175 and 35,841 pounds of waste respectively.

RCRA INSPECTION REVIEW SHEET

Type	of	Inspection:	Generator X Transporter TSD
Date	of	Inspection -	March 16, 1983
RCRA	ID	Number -	PRT 000010066
Name	of	Facility -	Eli Lilly Industries, Inc.

Name of EPA/State Inspector:

Mr. Tomás Sanabria González Chemist Environmental Quality Board Santurce, Puerto Rico

Findings of Inspection:

As Generator of hazardous waste, the industry is not in compliance with Section 262 (Standards Applicable to Generators of Hazardous Waste) of the Federal Register, of May 19, 1980, and Rule 808 of the state regulation. (Annual Review Trainning). Refer to RCRA Inspection Review Sheet.

Action(s) Taken:

Action(s) Recommended:

RCRA INSPECTION REVIEW SHEET

Name	of	Facility -	Eli Lilly Industries, Inc Mayaguez	
RCRA	ID	Number -	PRT 000010066	
Date	of	Inspection -	March 16, 1983	
Type	of	Inspection:	Generator Transporter TSDX	

Name of EPA/State Inspector:

Mr. Tomás Sanabria González Chemist Environmental Quality Board Santurce, Puerto Rico

Findings of Inspection:

As TSD/Facility, the industry is not in compliance with Section 265, of the Federal Register, of May 19, 1980, since the Written Waste Analysis Plan does not comply with the requirements of Section 265.13 of the above mentioned Federal Register.

At the time of the inspection, the industry did not have performed the annual review of trainning requested by Rule 808 C 4 and 265.16 - Personnel Trainning of the State and Federal Regulation, respectively.

NOTE: A notice of deficiencies was sent to Mr. Vicente Díaz, Project Engineer of the company in which a period of time (until May 30, 1983) is gave to correct and submit evidence to our Program, that these deficiencies have been corrected.

If at the end of this time, the industry does not comply the case will be referred to the Puerto Rico Environmental Quality Board Lawful Affairs.

Action(s) Taken:

Action(s) Recommended:

RCRA INSPECTION FORM

Report Prepared for:	
Generator /	
The second secon	
Transporter	
HWM (TSD) facility [
Copy of report sent to the facility	
Postat address:	Facility Information
De Controlle	Notes Par Page 1
P.O. BOX 1748	Malle: Ut Lilly Industries, Inc.,
mayaguez, Ph Locat A	Name: Cli Lilly Industries, Inc., ddress: State Rd. No. 2 Km 14.7
00,00	
	mayaquez, P.R
	Da Tou
<u> </u>	PA ID#: PRT 0000 10066
- Date of Insp	ection: march 16, 1983
	Participating Personnel
State or FPA Por	
but or mirre.	sonnel: nr. Tomas Sanabria Singalez
	Chemist
Facility Pers	sonnel: Mr. Vicente Diaz
	Project Engineer
Report Prepared by	Name: hur Jumas Sanabria Tonzala
	Agency: C. O. B
Teler	phone #: 725-5140 ext. 314 or 290

Approved for the Director by:

Is there reason to believe that the facility has hazardous waste on-site?

	a.	If yes, what leads you to believe it is hazardous waste? Check appropriate boxes:
	I	Company admits that its waste is hazardous during the inspection.
	N	Company admitted the waste is hazardous in its RCRA notification and/or Part A Permit Application.
	N	The waste material is listed in the regulations as a hazardous waste from a nonspecific source (§261.31) (F002, F003 and F005).
nt pey	<u></u>	The waste material is listed in the regulations as a hazardous waste from a specific source (§261.32)
ut		
ply		The material or product is listed in the regulations as a discarded commercial chemical product (§261.33)
t		
ply	<u>'</u>	Testing has shown characteristics of ignitability, corrosivity, reactivity or extraction procedure toxicity, or has revealed hazardous constituents (please attach analysis report)
ut		
rey		Company is unsure but there is reason to believe that waste materials are hazardous. (Explain)

GNERATOR INSPECTION CECCLIST

40 CFR 262 Subpart A-General	VEC IN 10/2
262.11 - Eazardous waste determination	<u>YES 80 N/A</u>
I) Did the generator test its waste to determine whether it is hazardous?	
Is the waste hazardous?	
2) Is the generator determining that its waste exhibits a hazardous waste characteristic(s) based on its knowledge of the material(s) or processes used?	
40 CR 262 Subcart B-The Manifest	<u></u>
Eas hazardous waste been shipped off-site since November 19, 1980?	
If yes, approximately how many shipments, off-site, have been made and describe the approximate size of an average shipment made on a monthly basis. If facility is a small quantity generator, please explain. The company performed 2 shipments for many performed 2 shipments for many performed 2. Shipments for many per	ne vervante an
— a manifest document number?	
- the generators name, mailing address, telephone number and EPA I.D. Number?	
- the transporters name and EPA I.D. Number?	
- the name, address and FPA ID Number of the designated facility?	~
— a description of the wastes (DDI)?	~
— the total quantity of each hazardous waste by units of weight or volume, and the type and number of containers as loaded into or onto the transport vehicle?	
- a certification that the materials are properly classified, described, cackage, marked and labeled	
described, package, marked and labeled, and are in proper condition for transportation under regulations of the DOT and EPA?	
(obtain a copy of the incomplete manifests)	<u> </u>
40 CFR 262 - Subcart D - Recordkeeping and Reporting	
262.40 Eas the generator maintained facility records since Nov. 19, 19807 (manifest) exception report and waste analysis)	<u>~</u>
262.42 Has the generator received signed copies (from the TSD facility of all the manifests for waste shipped off-site more than 35 days ago?	t)
If not, have Exception Reports been submitted to EPA covering any of these shipments made more than 45 days ago?	

40 CR 252 - Subpart C - Pretranscorration Requirements

262.30-33	Before transporting or offering hazardous waste for the offerator:	ransportation
	on the cost cas case cases and	, • }
	1) Package the wasta in accordance with applicable regulations (i.e., 49 CR Parts 173, 178 & 179)	cor .

2) Label each package according to DOT (i.a., 49 CR

3) Mark each package according to DOT (i.e., 49 CR 172)

4) Mark each container of 110 callons or less with the words "Earardous Waste - Federal Law Prohibits Improper Disposal. If found, contact the nearest police or quolic safety authority or the U.S. EPA." and include the generators name, address and manifest document names. (i.e., 49 CFR 172.304)

262.34 Accomulation Time

		-	•		
I)	B ₩	15	waste	accomulated	on-site?

Containers

Tarks

Surface impuncients (complete 500 decklist)

Piles (complete 500 decklist)

2) Is waste accomplated for more than 90 days?

If yes, complete SWF checklist

3) Is each container clearly dated with each period of accumulation so as to be visible for inspection?

4) Is each container or tank marked or labeled with the words "hazardous waste" or in compliance with the DOT labeling requirements?

STOP HERE IF THE HAZARDOUS WASTE MGT FACILITY (TSD) CHECKLIST IS FILLED OUT

40 0

40 0	FR	Part 265 Subpart B General Facility Standards	
265.	13-	General Waste Analysis	
	1)	Is there a detailed chemical and physical analysis of a representative sample of the waste or each waste? (At a minimum this analysis must contain all the information necessary for proper management of the waste)	
		Fequent testing? You may check only one Waste characteristics vary All waste are basically the same The company char Characteristics vary All waste are basically the same The company characteristics has Characteristics vary All waste are basically the same	andles was
	3)	Is there a written waste analysis plan at the facility?	
		Does it contain the following:	
	•	a) Parameters for each waste to be analyzed and the rationale for the selection of these parameters.	<u> </u>
		b) Test methods used to test these parameters.	
		 c) Sampling methods to obtain a representative sample of the waste to be analyzed. 	
		d) France of repeated analysis to ensure accurate and current information.	<u></u>
•			
	4)	Does hazardous waste come to this facility from an outside source? e.g. another generator.	
	5)	If waste comes from an outside source, are there procedures in the plan to insure that waste received conforms to the accompanying manifest?	<u> </u>
265	.14	-Security .	
	1)	Is there: a) a 24-hour surveillance system? or,	
		b) a suitable barrier which completely surrounds the active portion of this facility?	<u></u>
	2)	Are there "Danger-Unauthorized Personnel Keep Ort" signs posted at each entrance to the facility?	<u></u>
		If mo, explain what measures are taken for security.	
			*
265.	.15	- General Inspections Requirements	
	1)	Does the facility have a written inspection schedule?	<u> </u>
	2)	Does the schedule identify the types of problems to be looked for and the frequency of inspections?	<u></u>
	3)	Does the owner/operator record inspections in a log?	V

4) Is there evidence that problems reported in the inspection log have been remedied?

265.16 - Personnel Training	YES	<u> </u>	N/A
 Eave facility personnel successfully completed a program of classroom instruction or on-the-job. training within 6 months of having been amployed? 		/	
If yes, have facility personnel taken part in an annual review of training?			_
2) Is there written documentation of the following:			•
-job title for each position at the facility related to hazard waste management and the name of the employee filling each job	ious ob?	_	_ .
-type and amount of training to be given to personnel in jobs related to hazardous waste management?	~	_	
-actual training or experience received by personnel?	1		
years?	~		<u>.</u> —
265.17-General Requirements for Ignitable, Reactive or Incompatib	le		
Wastes	-	•	
I) Are there ignitable, reactive or immorpatible waste on site?	-	1	_
If yes, what are the approximate types and quantities and location of the waste.	4.		
2) Eave precautions been taken to prevent actidental ignition or reaction of ignitable or reactive waste?	· .		•
If m. please explain.		1	
3) In your coinion, are proper precautions taken so that these wastes do not:			
- generate extreme heat or pressure, fire or explosion, or violent reaction?	<u> </u>		
— produce uncontrolled toxic mist, funes, dusts or gases in sufficient quantities to pose a risk of fire or explosions?	<u> </u>		
— decaye the structural integrity of the device or facility containing the waste?.	V		3.6
— threaten human health or the environment?	~		
•			

40 CR 265 - Subtart C - Preparedness and Prevention
265.32 Does the facility comply with preparedness and prevention requirements including maintaining:
— an internal communications or alarm system?
a telephone or other device to summon emergency assistance from local authorities?
— portable fire equipment?
hose streams, foam producing equipment, etc.
265.33 Is equipment tested and maintained?
265-34 Is there immediate access to communications or alarm systems during handling of hazardous waste?
265.35 Adequate aisle space?
If m, please explain storage pattern.
In your opinion, do the types of waste on-site require all of the above procedures, or are some not needed: Doplain.
Ju, because the waster handled by the company are hazardore
Does the facility have a written contingency plan for energency procedures designed to deal with fires, explosions or any unplanned release of hazardous waste?
1) Does the plan describe arrangements made with the local authorities?
2) Eas the contingency plan been submitted to the local authorities?
of Emergency Coordinators?
4) Does the plan have a list of what energency equipment is available?
5) Is there a provision for evacuating facility personnel?
6) Was there an emergency coordinator present or on call at the time of the inspection?
40 CFR 265 Subpart E-Manifest System, Recordkeeping and Reporting
265.71 - Use of the Manifest
1) Eas the facility received hazardous waste from an off-site source since November 19, 1980?
If mo, skip to 265.73 - Operating Record
2) If yes, does it appear that the facility has a copy of
a manifest for each hazardous waste load received?

If not, please explain.

4) Does each manifes ave the following information? (circle missing information)
- a manifest document number?
— the generators name, mailing address, telephone namer and EPA I.D. ‡?
— the transporters name and EPA I.D. Number?
the TSD name, address, telephone number & EPA I.D. Number?
— a description of the waste (DOT)?
— the total quantity of each hazardous waste by units of weight or volume, and the type and number of containers as loaded: into or onto the transport vehicle?
— a certification that the materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation under regulations of the DOT and EPA2
(Obtain a copy of the incomplete manifests)
265.72 - Manifest Discrepancies
Have there been significant discrepancies between the quantity and type of waste received and the waste identified on the manifest?
Describe unreconciled descrepancies.
265.73 - Operating Record
1) Does the facility keep an operating record?
2) Does the record contain the following information:
a) Description and quantity of waste on-site and the method(s) and date(s) of its Treatments, Storage & Disposal?
b) The location and quantity of each hazarchus waste at each location?
c) Records and results of waste analysis and trial tests performed and identified in the waste analysis plan?
d) Summary reports and details of all incidents that require implementing the contingency plan.
e) Records and results of inspections for the past 3 years or November 19, 1980 which ever is less?
f) Monitoring, testing or analytical data where required for:
Ground-ater, Land Treatment, Incinerators, and Thermal Treatment?
Thermal Treatment?
Themal Treatment? 265.76 - Urmanifested Waste Report
Thermal Treatment?

report? ...

4	40 CR 263 Simert F - Groundwater Monitoring	<u>AE2</u> <u>NO</u> <u>N/Y</u>
	(Applies only to	<u> </u>
1	is a groundwater monitoring plan available at the facility?	
<u>-</u>	If yes, please fill out the appropriate Ground-ater Monitoring Destinairs and attach to this report.	
4	0 CFR 265 Subtart G - Closure and Post-Closure	
	65.111 Closure Performance Standard	
1	ave any portions of the facility been closed since November 19 9807	
I	yes, please explain	F
	nut apply.	
2	65.112 - Closure Plan	
(2	oes the facility have a written closure plan? Applies to all types of TSD facilities)	
Ŀ	f yes, does the written plan include:	<u> </u>
	1. A description of how and when the facility will be partially (if applicable) and ultimately closed?	· · · · · · · · · · · · · · · · · · ·
	 An estimate of the maximum inventory of wastes in storage or treatment at any time during the life of the facility? 	
	3. A description of the steps necessary to decontaminate facility equipment during closure?	
	4. A schedule for final closure including the anticipated date when waste will no longer be received and when final closure will be completed?	
H	5. Does the comer/operator have a written estimate of of the cost of closing the facility?	
	If yes, what is it? (\$) 72,000.00	
263	5.118 - Post Closure Plan	
Doe (Ar	es the facility have a written post-closure plan? polies only to disposal facilities)	
If	yes, Does the Plan:	
	I. Identify the activities which will be carried on after closure and the frequency of these activities?	
	 Include a description of planned ground-ater monitoring activities and their frequency during post-closure? 	
	3. Include a description of planned maintenance activities and frequency to insure integrity of final over during post-closure?	
	4. Include the name, address and phone number of a person or office to contact during post-closure?	
	5. Does the comer/operator have a written estimate of the cost of post-closure for the facility?	
-	If ves. what is it? (s)	

Please circlé all appropriate activities and answer questions on indicated pages for all activities circled.

St	orace	Treatment	Disposal		
Containe	= - pg 6	Tank - pg 7	Landfill - pg ll		
fark, ab	ove graind-og 1	Surface Impoundment-og 8			
Tank, be	low gramd-og 7	Incineration - pg 12			
		Themal Treatment- pg 12	Surface Impounding	ents - pg 8	
		Land Treatment - pg 10			
Other		Chemical, Physical and			
		Biological Treatment - g	y 13		
	*	Other			
				, , , , , , , , , , , , , , , , , , ,	
40 CFR 26	5 - Subcart I - (Containers		YES NO N/A	
*	What type of or Describe the size	ntainers are used for stor re, type, quantity and rate -five gallon drams of wast			
	4, billy k	in galler drug	sug Doog,	POII, DO05, D	7004,2007
2) -	Is there a conta pecipitation?	irment system for spills,	leaks and	/ ·	4049,42
	If yes, describe		•		
4	. wit ag	sply.			
265.171 -	the container	s appear to be in good con	dition, act in		*
	,	3*	* :		
		escribe the type, condition ded containers. Be detail	and number of and specific.	X	
265.172 - 2	Are hazarinis was	whapplig			
	mterials?	oct John III Containers and	ide of compatible		
	If mot, please ex				
	دغ	nitapply			
265.173(a)	- Are all contai	ners closed except those i	n use?		
265.173(b)	- Do containers or stored in a	appear to be properly open manner which will minimiz er rupturing or leaking?	-E _		
265.174 -		area inspected at least w	المانات		
265.176 -	Are containers	holding ignitable and react (15 meters) away from the	L .		
265.177 -	Are incompatible other?	e wastes stored separate f	ron each		
	If mo, explain		-		

nut apply

. 1)	(a.g water-al) innerator, poiler, fluidized bed,)	
	(a.g vater at	
	Thermal Research Incinerator.	
2)	List the types and quantities of EW incinerated or thermally to	reated.
	Types - ignitability	*
	to the surface.	
2.	quantitus - 60 saluns pu hours.	•
- 17	If the residue from the incinerator themal treatment unit a hazardous waste?	
	maradus wases.	
4)	What types of air pollution control devices (if any) are	
	installed in the incinerator/or thermal treatment unit?	
	0	
	Scribber	
	Is energy recovered from the process?	
	If yes, describe.	
	netapply	
6)	What is the destruction and removal efficient for the	•
		71 +11.
्री	the time of the enspection, the company of	lid nut haut the
	about linformation	•
265.341 -	Does the operating record include additional analysis'	
and	to determine types of pollutants which might be emitted includ	ing:
265.375		
	- heating value of the waste?	
	halana and gulfar annione?	
	- halogen and sulfur content?	
	- concentrations of lead and mercury?	
	If mo to any of the above questions is there justification	_ the inoustry
	and documentation?	the industry
		Domedo a
	If operating, does it appear the incinerator/or thermal	purpos
and 、	treatment imit is marring at charge state me me	
	treatment unit is operating at steady state for con-	chemital
	ditions of operation, including temperature and air flow?	chemial anolytes.
		_ anolytes.
265.373		chemital anolytes.
265.373	ditions of operation, including temperature and air flow?	chemital _ anolytes.
265.373 265.347 -	ditions of operation, including temperature and air flow? Munitaring and Inspection 1) Are existing instruments relating to combustion	_ chemital anolytes.
265.373 265.347 -	ditions of operation, including temperature and air flow?	_ chemital anolytes.
265.373 265.347 -	Munitaring and Inspection 1) Are existing instruments relating to combustion and emission controls monitored every 15 minutes?	_ chemital anolytes.
265.373 265.347 -	ditions of operation, including temperature and air flow? Monitoring and Inspection 1) Are existing instruments relating to combustion and emission controls monitored every 15 minutes? If mo, explain	chemital anolytes.
265.373 265.347 -	ditions of operation, including temperature and air flow? Monitoring and Inspection 1) Are existing instruments relating to combustion and emission controls monitored every 15 minutes? If mo, explain	chemital anolytes.
265.373 265.347 -	Munitaring and Inspection 1) Are existing instruments relating to combustion and emission controls monitored every 15 minutes? If mo, explain	chemital anodypies.
265.373 265.347 -	Menitoring and Inspection 1) Are existing instruments relating to combustion and emission controls monitored every 15 minutes? If mo, explain The apply 2) Does the incinerator/themal treatment have all the	chemital anolytes.
265.373 265.347 -	Menitoring and Inspection 1) Are existing instruments relating to combustion and emission controls monitored every 15 minutes? If mo, explain 2) Does the incinerator/themal treatment have all the following instruments for measuring: wastefeed,	chemital anodypies.
265.373 265.347 -	Multiplier of operation, including temperature and air flow? Multiplier of operation 1) Are existing instruments relating to combustion and emission controls monitored every 15 minutes? If mo, explain 2) Does the incinerator/themal treatment have all the following instruments for measuring: wastefeed, airciliary fuel feed air flow, incinerator temperature	chemital anolypes
265.373 265.347 -	ditions of operation, including temperature and air flow? Monitoring and Inspection 1) Are existing instruments relating to combustion and emission controls monitored every 15 minutes? If mo, emplain 2) Does the incinerator/themal treatment have all the following instruments for measuring: wastefeed, antiliary fuel feed air flow, incinerator temperature scrubber flow, and scrubber pii? (Circle missing	chemital anolypes
265.373 265.347 -	Multiplier of operation, including temperature and air flow? Multiplier of operation 1) Are existing instruments relating to combustion and emission controls monitored every 15 minutes? If mo, explain 2) Does the incinerator/themal treatment have all the following instruments for measuring: wastefeed, airciliary fuel feed air flow, incinerator temperature	chemital anolytes.
265.373 265.347 -	ditions of operation, including temperature and air flow? Monitoring and Inspection 1) Are existing instruments relating to combustion and emission controls monitored every 15 minutes? If mo, emplain 2) Does the incinerator/themal treatment have all the following instruments for measuring: wastefeed, antiliary fuel feed air flow, incinerator temperature scrubber flow, and scrubber pii? (Circle missing	chemital anolytes.
265.373 265.347 -	Menitoring and Inspection 1) Are existing instruments relating to combustion and emission controls monitored every 15 minutes? If mo, explain 2) Does the incinerator/themal treatment have all the following instruments for measuring: wastefeed, auxiliary fuel feed air flow, incinerator temperature scrubber flow, and scrubber pil? (Circle missing instruments) If no, explain.	chemital anolytes.
265.373 265.347 -	Menitoring and Inspection 1) Are existing instruments relating to combustion and emission controls monitored every 15 minutes? If mo, explain 2) Does the incinerator/themal treatment have all the following instruments for measuring: wastefeed, auxiliary fuel feed air flow, incinerator temperature scrubber flow, and scrubber pill (Circle missing instruments)	chemital anolytes.
265.373 265.347 -	Menitoring and Inspection 1) Are existing instruments relating to combustion and emission controls monitored every 15 minutes? If mo, explain 2) Does the incinerator/themal treatment have all the following instruments for measuring: wastefeed, auxiliary fuel feed air flow, incinerator temperature scrubber flow, and scrubber pill (Circle missing instruments) If no, explain.	chemital anolytes.
265.373 265.347 -	Memitaring and Inspection 1) Are existing instruments relating to commission and emission controls monitored every 15 minutes? If mo, explain 2) Does the incinerator/themal treatment have all the following instruments for measuring: wastefeed, auxiliary fuel feed air flow, incinerator temperature scrubber flow, and scrubber file, incinerator temperature instruments) If no, explain. With apply 3) Is the stack plume observed visually at least	chemital anolytes.
265.373 265.347 -	Menitoring and Inspection 1) Are existing instruments relating to combustion and emission controls monitored every 15 minutes? If mo, explain 2) Does the incinerator/themal treatment have all the following instruments for measuring: wastefeed, auxiliary fuel feed air flow, incinerator temperature scrubber flow, and scrubber pill (Circle missing instruments) If no, explain.	chemital anolytes.
265.373 265.347 -	Memitaring and Inspection 1) Are existing instruments relating to commission and emission controls monitored every 15 minutes? If mo, explain 2) Does the incinerator/themal treatment have all the following instruments for measuring: wastefeed, auxiliary fuel feed air flow, incinerator temperature scrubber flow, and scrubber file, incinerator temperature instruments) If no, explain. With apply 3) Is the stack plume observed visually at least	chemital anolytes.
265.373 265.347 -	Menitoring and Inspection 1) Are existing instruments relating to combustion and emission controls monitored every 15 minutes? If no, explain 2) Does the incinerator/themal treatment have all the following instruments for measuring: wastefeed, anxiliary fuel feed air flow, incinerator temperature scrubber flow, and scrubber pill (Circle missing instruments) If no, explain. 1) Is the stack plume observed visually at least hourly for opacity and color?	chemital anolytes.
265.373 265.347 -	Menitoring and Inspection 1) Are existing instruments relating to combustion and emission controls monitored every 15 minutes? If no, explain 2) Does the incinerator/themal treatment have all the following instruments for measuring: wastefeed, anxiliary fuel feed air flow, incinerator temperature scrubber flow, and scrubber fill (Circle missing instruments) If no, explain. 3) Is the stack plume observed visually at least hourly for opacity and color?	chemital anolytes.
265.373 265.347 -	ditions of operation, including temperature and air flow Minituring and Inspection 1) Are existing instruments relating to combustion and emission controls monitored every 15 minutes? If mo, explain 2) Does the incinerator/themal treatment have all the following instruments for measuring: wastefeed, auxiliary fuel feed air flow, incinerator temperature scrubber flow, and scrubber pi? (Circle missing instruments) If no, explain. 3) Is the stack plume observed visually at least hourly for opacity and color? 4) Are there any signs of leaks, spill and fugitive emissions associated with the pumps, valves, conveyors, pipes etc? If yes, describe.	chemital anolytes.
265.373 265.347 -	Menitoring and Inspection 1) Are existing instruments relating to commustion and emission controls monitored every 15 minutes? If no, explain 2) Does the incinerator/themal treatment have all the following instruments for measuring: wastefeed, auxiliary fuel feed air flow, incinerator temperature scrubber flow, and scrubber pill (Circle missing instruments) If no, explain. 3) Is the stack plume observed visually at least hourly for exacity and color? 4) Are there any signs of leaks, spill and fugitive emissions associated with the pumps, valves,	chemital anolytes.
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265.373 265.347 -	######################################	chiental anolytes.

40 CFR 265 Subpart J - Tanks

265:190 1) What are the approximate number and size of tanks
Ontaining hazardous waste?
2 tanks no. 7 and no. 14 of 12,000 gallens of capacity each one. 2) Identify the waste treated/stored in each tank.
The roade is a mixture of: talune; Bengyl Chlorice, Cthyl
265.192 - General Operating Requirements
203.132 - Caletat Operating requirements
1) Are the tanks maintained so that there is no evidence of past, present, or risk of future leaks?
If no, please explain.
not apply
2) Are there leaking Canks?
3) Are all hazardous wastes or treatment reagents being
placed in tanks compatible with the tank material so
that there is no danger of ruptures, corrosion, leaks or other failures?
4) Do uncovered tanks have at least 2 feet of freeboard
or an adequate containment structure?
5) If waste is continuously fed into a tank, is the tank
equipped with a means to stop the inflow from the tank? e.g. bypass system to a standby tank
265.194 - Inspections
1) Is the tank(s) inspected each operating day for a) discharge control equipment b) monitoring equipment c) level of waste in tank
2) Are the tarks and surrounding areas (e.g., dike) inspected weekly for leaks, corrosion or other failures?
3) Are there underground tanks?
If yes, how many and can they be entered for inspection?
265.198 - Are ignitable or reactive wastes stored in a manner which protects them from a source of ignition or reaction?
If mo, please explain.
265.199 - Does it appear that incompatible wastes are being stored separate from each other?
· · · · · · · · · · · · · · · · · · ·



August 15, 1986

MEMORANDUM

TO O

Mr. Carlos R. Vázquez Ayala

Director

Land Pollution Control Area

THROUGH

Yazmín López

Acting Director

Hazardous Waste Division

Ivette De Jesús, Chief A Inspection, Monitoring and

Surveillance Section

FROM

Damaris Maldonado Viñas Environmental Inspector

SUBJECT

ELI LILLY INDUSTRIES, INC.

MAYAGUEZ - PRD 091024786

The above mentioned facility was visited on June 30, 1986, with the purpose of performing a Full RCRA Generator and TSD Facility Inspection.

The following documents related to this inspection are enclosed:

- Inspection Report
- Notification to the industry
- RCRA Generator and TSD Inspection Form
- Copy of Part "A" Permit Application

RCRA INSPECTION REPORT

Report Prepared for:

Eli Lilly Industries, Inc.

Location:

Road No. 2 Km. 146 Sabanetas Mayaguez, Puerto Rico

Mailing Address:

P. O. Box 1748 Mayaguez, Puerto Rico 00708

Telephone:

(809) 834-7846

Type of Inspection:

A full RCRA inspection was conducted to Eli Lilly Industries, Inc. as Generator and TSD Facility.

E.P.A. I.D. Number:

PRD 091024786

Date of Inspection:

June 30, 1986

Participating Personnel:

Mr. José J. Rivera - Eng. Manager

Mr. Gabriel García - Project Eng.

E.Q.B. or E.P.A. Personnel:

Damaris Maldonado Viñas

Report Prepared by:

Damaris Maldonado Viñas Environmental Inspector

Company's type of process:

Eli Lilly Ind., Inc., produce pharmaceuticals products such as: Darvon, Ilosone, Acetohexamide and Cephalexin.

Process where the HW are generated:

The hazardous wastes are generated from the distillations extractions, separations and drying processes.

GENERATOR STANDARDS

Subpart A - General

262.11/702 B (1) - Hazardous Waste Determination

To determine that the wastes are hazardous, the company used the following methods:

- Acetone, Toluene, Spent Solvent These wastes are listed in the regulation as hazardous waste, with hazardous waste number F002.
- Ethyl Acetate, Ethyl Ether Thesewastes are listed in the regulation as hazardous wastes with hazardous waste number F003.
- Toluene This waste is listed in the regulation as a hazardous wastes with hazardous waste number F005.
 - Alcohols and Hexane Exhibit Ignitability characteristic (D001).
 - Piridine Toxic waste with hazardous waste number D004.
 - Chromium With hazardous waste number D007.
 - Lead With hazardous waste number D008.
 - Mercury With hazardous waste number D009.
 - Selenium With hazardous waste number D010.
 - Silver With hazardous waste number DO11.
 - Phosphoric Acid Corrosive waste with hazardous waste number D002.

262.12/702 C (1) (2) - EPA Identification Numbers

EPA assigned the following identification number: PRD 091024786.

262.20 - 262.23/703 - General Requirements and Use

Eli Lilly Ind., Inc., has record of all manifests sent by Eli Lilly of Carolina, Puerto Rico for wastes incinerated.

Subpart C - Pre-Transport Requirements

262.30 - 262.33/704 (A) (B) (C) - Packaging, Labeling, Marking, Placarding

Eli Lilly Indc., Inc., received all the steel containers of 55 gallons with the labels in accordance with applicable Department of Transportation regulation. The containers were marked with "Hazardous Wastes" Lable.

262.34/704 (D) - Accumulation Time

Eli Lilly Ind., Inc. accumulates hazardous waste for more than 90 days, therefore, it is an operator of a storage facility.

Subpart D - Record Keeping and Reporting

262.40/504 A (1) (2) - Recordkeeping

Eli Lilly Ind., Inc., keep a copy of each manifest signed since 1981.

262.41/503 A - Annual Report

Eli Lilly Ind., Inc., submitted the annual report to the Environmental Quality Board on March 3, 1986. They have records premium annual reports.

262.41/504 B - Exception Reporting

Eli Lilly did not have to submit and Exception repor at this time.

TSD FACILITY STANDARDS

Subpart B - General

265.13/807 I - Waste Analysis

The waste analysis plan specifies the test methods, sampling methods, frequency of analysis and parameters to be used for analysis.

265.14/803 D - Security

Eli Lilly Ind., Inc., maintains and effective surveillance program 24 hours per day. This facility has a barrier fence to control entry. The gate is operated by remote control from a guard house.

Three (3) signs with the legend "Danger Unauthorized Personnel Keep Out" both in English and Spanish are posted at the storage area although these signs were found deteriorated.

265.15/803 F - General Inspection Requirements

Eli Lilly Ind., Inc., has a written inspection schedule which identifies the items to be inspected and the frequency of inspection. It also identifies they types of problem which may be prevalent during the inspection. Eli Lilly, Inc., records all inspections in a weekly inspection log which includes date, time of the inspection, the name of the inspector and comments for any remedial action inspection. In general Eli Lilly Ind., Inc., meet the general inspection requirements specified in 265.15/803 F.

PERSONNEL TRAINING

265.16/808 (B) (C) - Personnel Training

Record review reveals that Eli Lilly Ind., Inc., personnel completed classroom instruction and on the job training within six (6) months of being employed. Eli Lilly, Ind., Inc., maintain written documentation of job title for each position, the name of the employee filling each job type received by personnel. These recoreds are kept in the facility but no written evidence of the content of training was shown. Therefore, Eli Lilly, Ind., Inc., does not meet the require information specified in 265.16/808 C.

Subpart C - Preparedness and Prevention

265.31/810 B - Maintenance and Operation of Facility

In general Eli Lilly Ind., Inc., is maintained and operated to minimize the possibility of a fire, explosion, or any unplanned sudden or non sudden release of hazardous waste.

265.32/810 C - Required Equipment

Eli Lilly Ind., Inc., has internal alarm system, telephones, walkie talkies for the personnel and fire extinguishers near to the storage area. Water at adequate volume and pressure to supply water hose streams was available.

265.33/810 D - Tasting and Maintenance of Equipment

All the available emergency equipment is listed and maintained weekly to assure its operation in time of emergency.

265.34/810 E - Access to Communications or Alarm System

The personnel involved in the operation of HW activities have immediate access to an emergency communication device such as telephone.

265.35/810 F - Required Aisle Space

Eli Lilly Ind., Inc., facility maintains adequate aisle space to allow the unobstructed movement of personnel in the storage area.

267.37/810 G - Arrangements with Local Authorities

Evidence of arrangements with local authorities were not shown. Therefore, the company was found in violation to this section.

Subpart E - Manifest System, Recordkeeping and Reporting

265.71/540 A - Use of Manifest System

Eli Lilly Industries, Inc., has copies of Manifests of all hazardous waste received in their facility. These were evaluated and found that contain all the information concerning the manifest system.

265.72/504 (D) - Manifest Discrepancies

Manifest discrepancies had not happened.

265.73/502 (C) - Operating Records

Eli Lilly Ind., Inc., keep daily record of all operations. These records provide a discreption of type and quantity of each hazardous waste stored at the facility.

265.74/505 (B) (C) (D) - Availability, Retention, and Disposition of Records

All records were available at the time of inspection.

265.75/503 A - Annual Report

Eli Lilly Ind., Inc., keep record of annual reports.

Subpart D - Contingency Plan and Emergency Procedures

265.52/207 - Content of Contingency Plan

The Plan describe the actions facility personnel must take to comply in the implementation of the Contingency Plan. This Plan must be updated for the Emergency and Alternate Coordinator names. It does not contain the evacuation Plan. Therefore, is not in compliance with this section.

265.53/207 (2) - Copies of Contingency Plan

Copies of the Contingency Plan were available during the inspection.

265.54 a/803 E - Amendments of Contingency Plan

The Contingency Plan is under provision by the Emergency Coordinator.

265.55/803 E (1) - Emergency Coordinator

At the time of the inspection the emergency coordinator was present.

265.56/803 E (2) - Emergency Procedures

Written emergency procedures, were shown to the inspector.

Subpart G - Closure

265.11 - 265.115/ 805 - General

The Plan describes how and when the facility will be partially closed. It has an estimate of the maximum inventory of wastes in tanks containers and for the incinerator during the life of the facility and a cost estimate.

Subpart H - Finantial Requirements

265.142/806 - General

It is under E.Q.B. evaluation.

Subpart I - Use and Management of Containers

265.171/812 C (1) (2) (4) - Condition of Containers

Drums stored were found in good conditions at the moment of the inspection. No leaks were observed the drums. Were stored over wooden pallets and covered. The following wastes were found at the time of the inspection:

No. of Drums	Waste	Date generated	
46	Methanol/Acetone	6/6/86	
23	Mercury, Silver, Lead	1985365	

265.172/812 C (4) - Compatibility of Waste with Containers

Containers stored in Eli Lilly appear to be compatible with the hazardous waste stored. No signs of reaction were observed.

265.173/812 D (1) (2) - Management of Containers

Containers holding hazardous waste were closed at the moment of the inspection.

265.174/812 E - Inspections

Eli Lilly Ind., Inc., personnel inspect the storage facility according to their inspection schedule (weekly) in compliance with this section.

265.176/812 B (5) - Special Requirements for Ignitable or Reactive Waste

The containers holding ignitable waste are located at more than 50 feet from the facility's property line.

265.177/812 D (3) - Special Requirements for Incompatible Wastes

This section is not applicable to Eli Lilly since none of the waste stored at this facility are incompatible.

STATE REQUIREMENTS

SR - 502 (A) - Hazardous Waste Generation Records

Eli Lilly Ind., Inc., has records of all hazardous wastes generated.

Subpart J - <u>Tanks</u>

265.192/813 B - General Operating Requirements

Eli Lilly maintains evidence of general operating requirements of past, present, or risk of future leaks.

265.194/813 C - Inspections

The tanks (3) are inspected for dishcarge control equipment, monitoring equipment, level of waste in tank, construction of materials of the tanks. The tanks and surrounding areas (e.g. dike) are inspected weekly for leaks, corrosion or other failures.

265,197/813 E - Closure

At closure, all HW will be removed from tanks, discharge control equipment and discharge confinement structures.

265.198/813 F - Special Requirements for Ignitable or Reactive Wastes

Does not apply.

LIST OF DEFICIENCIES

Eli Lilly Industries, Inc.

1. Rule 808 (C) of RCHNSW and 40 CFR 265.16 (d)

These rules require that a Hazardous Waste Generator must developed a training Program. This program must include, at least, instructions which teaches facility personnel the hazardous waste management procedures and must be designed to ensure that the personnel is able to respond effectively to emergencies. Annual reviews of the training must be conducted and written evidence must be kept. At the time of the inspection it was found that company has not developed training program yet (written evidence).

2. Rule 810 (G) of RCHNSW and 40 CFR 265.37

This rule requires that copy of the Contingency Plan must be submitted to the local agencies (Police, Fire Department, Hospital, Civil Defense, etc.). At the time of the inspection evidence of this was not showned.

3. Rule 207 of RCHNSW and 40 CFR 265,72

This rule requires that the owner or operator has already prepared an emergency or Contingency Plan for the hazardous waste management, sufficient to comply with the requirements of the H.W. Regulation. At the time of the inspection the Emergency Coordinator and Emergency Alternate were not indicated in the Contingency Plan.

4. Rule 803 D of RCHNSW and 40 CFR 265,14

Require a sign with the legend, "Danger - Unauthorized Personnel Keep Out" must be posted at each entrance to the active portion, in sufficient numbers to be seen from any approach to the active portion and must be legible from a distance of at least 25 feet. At the time of the inspection the signs were found deteriorated.



August 14, 1986

Mr. José J. Rivera
Engineering Manager
Eli Lilly Industries, Inc.
P. O. Box 1748
Mayaquez, Puerto Rico 00708

Dear Mr. Rivera:

Reference is made to the Full RCRA Generator and TSD Facility Inspection performed to you company on June 30, 1986.

During the inspection, several deficiencies to the requirements of the Regulation for the Control of Hazardous and Non-Hazardous Solid Wastes and Federal Regulation, 40 CFR Parts 262 and 265 were found. Enclosed, please find the list of deficiencies.

It is requested that within thirty (30) calendar days of the receipt of this letter, your company send a letter, to this office outlining the remedial actions taken to correct the deficiencies found (Class II Violations).

If you have any questions about this matter, please contact Ms. Damaris Maldonado, of my staff at: (809) 722-0437.

Cordially yours,

Carlos R. Vázquez Ayala Director Land Pollution Control Area

CRVA/smm